

PET PRODUCT CATALOG



IMPORTANT POINTS

ABOUT US

- Exporting to over 100 countries.
- Leading company in its sector.
- Europe's largest PET Resin and PET Preform production facility under one roof.
- Annual production of 500 K tons of PET Resin.
- Annual production of 110 K tons of R-PET Resin.
- Annual production of 240 K tons of PET Preforms.
- Annual production of 29,2 K tons of Flexible Packaging.
- (Industrial Stretch Films, Shrink Films and Bubble Wrap.)
- Annual production of 22,5 K tons of PET Sheet.
- Annual production of 18,2 K tons of PE (HDPE/LDPE) CAPs.
- Annual production of 72 K tons of PET Flakes.
- Annual production of 518 K pieces of Plastic Pallet.
- Increasing overseas investments in PET and Plastic Packaging industry
- Sustainable and environmentally friendly production.
- Superior quality practises and environmentally friendly investments.
- Sustainable Renewable Energy production and consumption.
- Approved supplier certificates.



TECHNICAL DATA SHEET

for products made of PET (polyethylene terephthalate) intended
to come into contact with food

PET RESIN



TECHNICAL DATA SHEET

PET K-076

PET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Koksan Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties.

PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	0,76±0,02	ASTM F-2013-01
Acetaldehyde	ppm	max. 1	ASTM D-6290
Color L*		min. 90	ASTM D-6290
Color b*		Max.(+1)	DIN 53765
Melting Point	°C % g/100	246±2	DIN 51777 Part 2 (09/74)
Moisture Content	chips ppm	max. 0,2	IQ 10692
Chip Size		1,6±0,2	IQ 10702
Fines		max. 100	

Specification PET type K-076

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures	
- Drying Time	160- 180°C
- Injection Temperatures	4 – 6 hours
	260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-076. All above mentioned results are based on our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET K-080

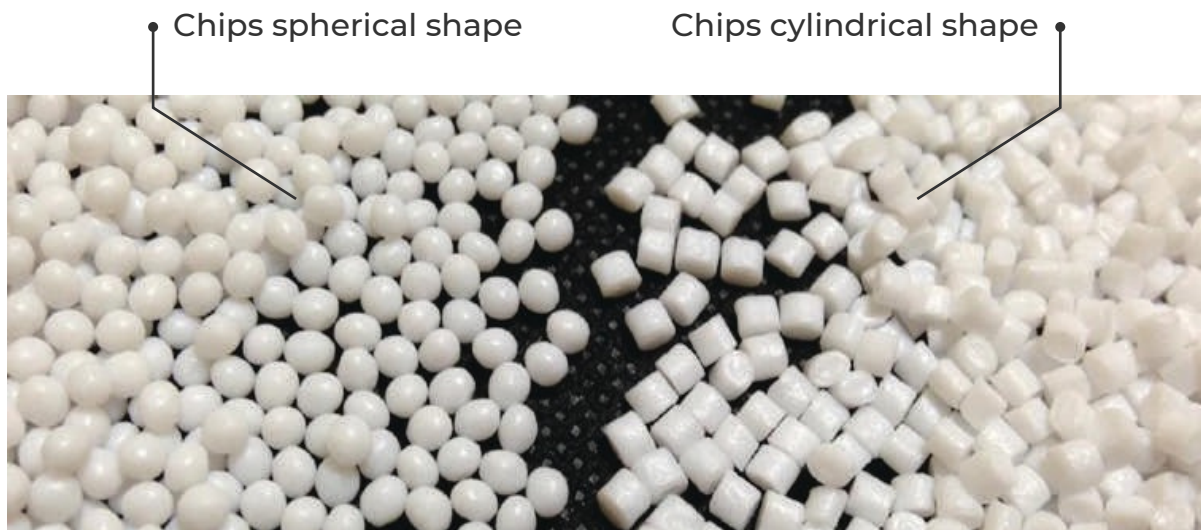
PET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties. PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	0,80±0,02	ASTM F-2013-01
Acetaldehyde	ppm	max. 1	ASTM D-6290
Color L*		min. 90	ASTM D-6290
Color b*		Max.(+1)	DIN 53765
Melting Point	°C % g/100	246±2	DIN 51777 Part 2 (09/74)
Moisture Content	chips ppm	max. 0,2	IQ 10692
Chip Size		1,6±0,2	IQ 10702
Fines		max. 100	

Specification PET type K-080

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures	
- Drying Time	160- 180°C
- Injection Temperatures	4 – 6 hours
	260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-080. All above mentioned results are based on our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. KÖKSAN PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET K-084

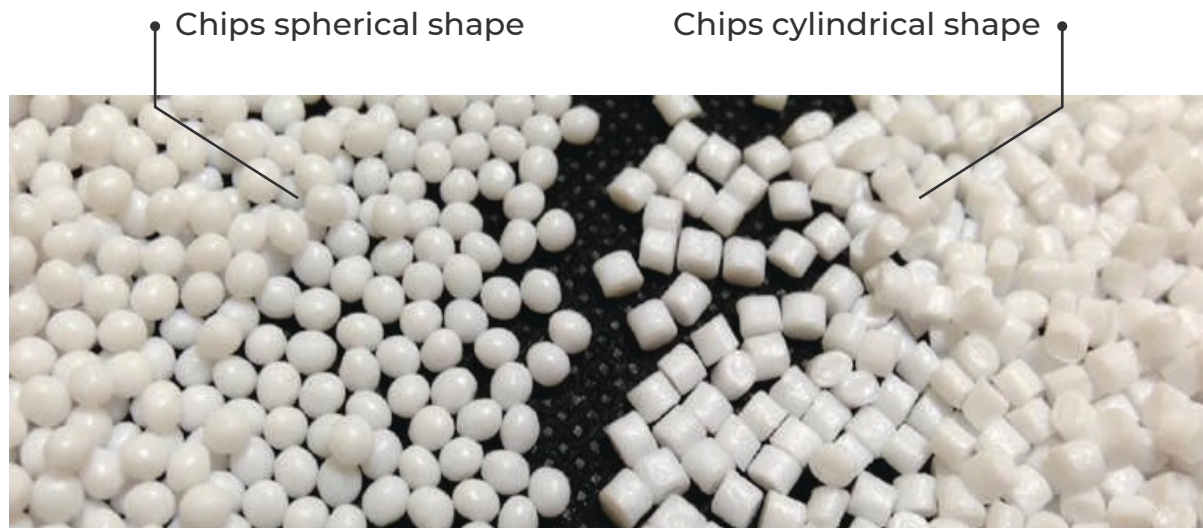
PET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Koksan Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties. PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	0,84±0,02	ASTM F-2013-01
Acetaldehyde	ppm	max. 1	ASTM D-6290
Color L*		min. 90	ASTM D-6290
Color b*		Max.(+1)	DIN 53765
Melting Point	°C % g/100	246±2	DIN 51777 Part 2 (09/74)
Moisture Content	chips ppm	max. 0,2	IQ 10692
Chip Size		1,6±0,2	IQ 10702
Fines		max. 100	

Specification PET type K-084

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures	
- Drying Time	160- 180°C
- Injection Temperatures	4 – 6 hours
	260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-084. All above mentioned results are based on Our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET 084-ENSAVE

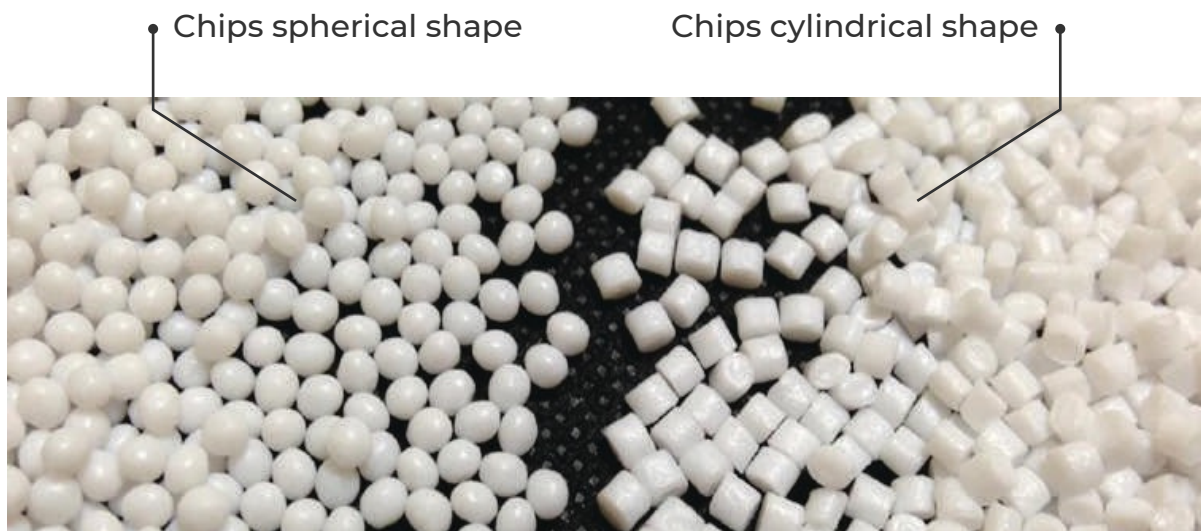
KPET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Koksan Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties. PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	0,84±0,02	ASTM F-2013-01
Acetaldehyde	ppm	max. 1	ASTM D-6290
Color L* (Not Grinding)		min. 76	ASTM D-6290
Color b* (Not Grinding)		≤ -1,0	ASTM D-6290
Color L* (Grinding)		min. 89	ASTM D-6290
Color b* (Grinding)		≤ 0,0	DIN 53765
Melting Point	°C	246±2	DIN 51777 Part 2 (09/74)
Moisture Content	%	max. 0,2	IQ 10692
Chip Size	g/100 chips	1,6±0,2 spherical	IQ 10702
Fines	ppm	max. 100	

Specification PET type K-084-enSave

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures	
- Drying Time	160- 180°C
- Injection Temperatures	4 – 6 hours 260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-084-enSave. All above mentioned results are based on Our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET RESIN TEXTILE GRADE (SUPER BRIGHT) K-0645

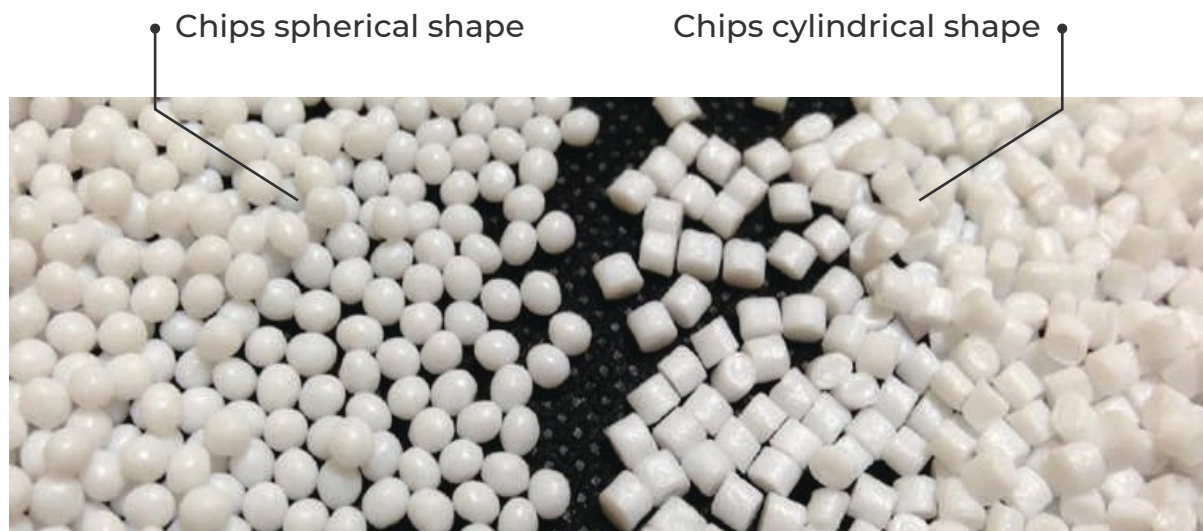
PET Resin Textile Grade (Super Bright) K-0645 is crystallized, low molecular weight thermoplastic polymer made by continuous polymerization process. PET Resin Textile Grade (Super Bright) K-0645 is especially formulated for textile grade applications such as BCF, POY, Stable Fiber, and Nonwoven.

Property	Unit	Value	Test	Method
Intrinsic Viscosity	dl/g	0,650±0,005	ISO 1628-5	
Color L*		min. 83,0	ASTM D-6290	
Color b*		-1,0±1,0	ASTM D-6290	
Moisture Content	ppm °C %	Max.500	DIN 51777 Part 2	
Melting Point	mmol/kg	255 ± 2	DIN 53765	
DEG Content	g/100chips	1,35±0,15	IQ 10687	
COOH End Groups	ppm	max. 35	DIN/ISO 2114	
Chips Size		2,4±0,3	IQ 10692	
Fines		max. 100	IQ 10702	

Specification PET Resin Textile Grade (Super Bright) K-0645

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures
 - Drying Time
- | | |
|--|-------------|
| | 160- 180°C |
| | 2 – 4 hours |

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type our Resin Textile Grade (Super Bright) K-0645. All above mentioned results are based on our Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET RESIN FILM GRADE

K-0645

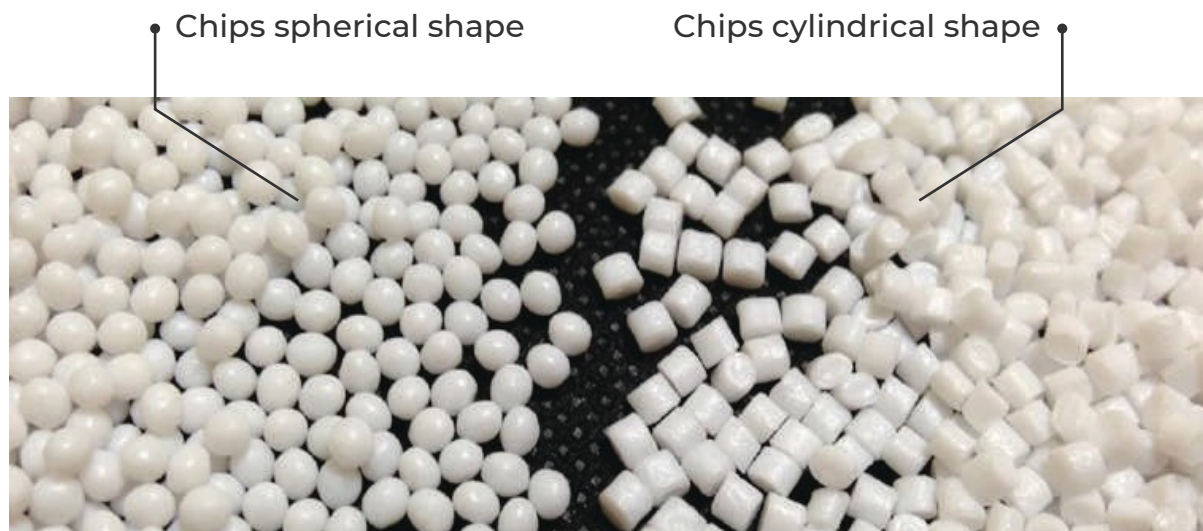
PET Resin Film Grade K-0645 is crystallized, low molecular weight thermoplastic polymer made by continuous polymerization process. Koksan PET Resin Film Grade K-0645 is especially formulated for textile grade applications such as BCF, POY, Stable Fiber, and Nonwoven.

Property	Unit	Value	Test	Method
Intrinsic Viscosity	dl/g	0,650±0,005	ISO 1628-5	
Color L*		min. 83,0	ASTM D-6290	
Color b*		-1,0±1,0	ASTM D-6290	
Moisture Content	ppm °C %	Max.500	DIN 51777 Part 2	
Melting Point	mmol/kg	255 ± 2	DIN 53765	
DEG Content	g/100chips	1,35±0,15	IQ 10687	
COOH End Groups	ppm	max. 35	DIN/ISO 2114	
Chips Size		2,4±0,3	IQ 10692	
Fines		max.100	IQ 10702	

Specification PET Resin Film Grade- K-0645

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures
 - Drying Time
- | | |
|--|-------------|
| | 160- 180°C |
| | 2 – 4 hours |

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm to our specification for type Our PET Resin Film Grade- K-0645 All above mentioned results are based on our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET K-082

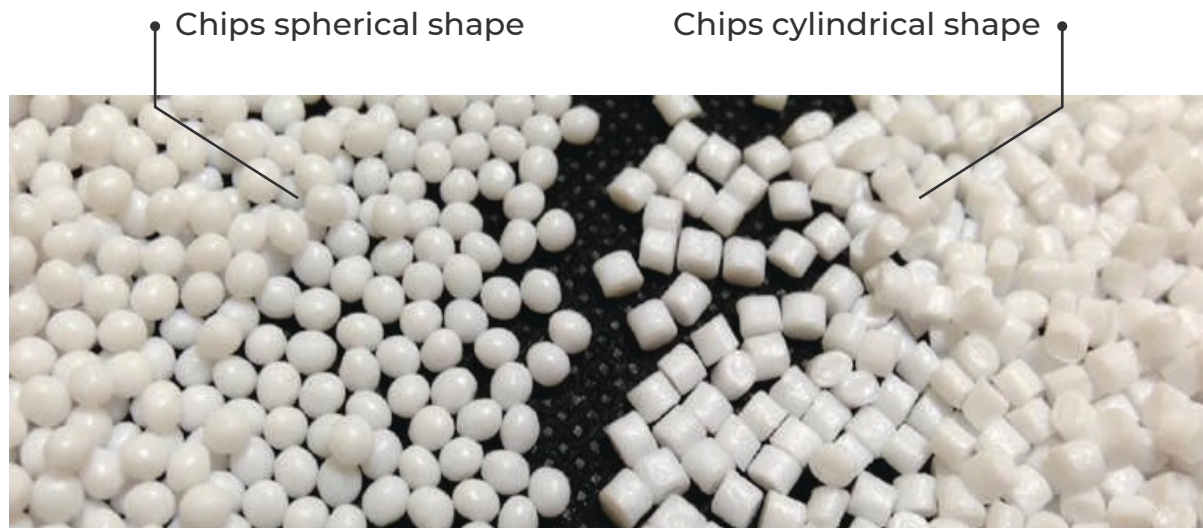
PET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties. PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value 0,82±0,02	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	max. 1	ASTM F-2013-01
Acetaldehyde	ppm	min. 90	ASTM D-6290
Color L*		Max.(+1)	ASTM D-6290
Color b*		246±2	DIN 53765
Melting Point	°C % g/100	max. 0,2	DIN 51777 Part 2 (09/74)
Moisture Content	chips ppm	1,6±0,2 spherical	IQ 10692
Chip Size		max. 100	IQ 10702
Fines			

Specification PET type K-082

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures	
- Drying Time	160- 180°C
- Injection Temperatures	4 – 6 hours
	260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-082. All above mentioned results are based on our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET K-076-ENSAVE

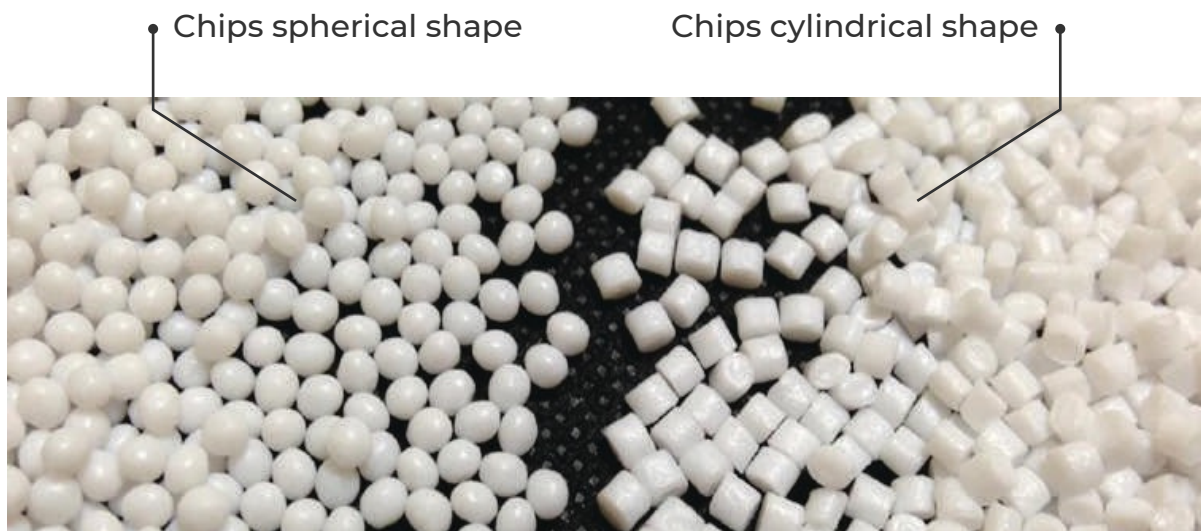
PET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties. PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	0,76±0,02	ASTM F-2013-01
Acetaldehyde	ppm	max. 1	ASTM D-6290
Color L* (Not Grinding)		min. 76	ASTM D-6290
Color b* (Not Grinding)		≤ -1,0	ASTM D-6290
Color L* (Grinding)		min. 89	ASTM D-6290
Color b* (Grinding)		≤ 0,0	DIN 53765
Melting Point	°C	246±2	DIN 51777 Part 2 (09/74)
Moisture Content	%	max. 0,2	IQ 10692
Chip Size	g/100 chips	1,6±0,2 spherical	IQ 10702
Fines	ppm	max. 100	

Specification PET type K-076-enSave

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures
- Drying Time 160- 180°C
- Injection Temperatures 4 – 6 hours
260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-076-enSave. All above mentioned results are based on our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET K-086

PET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties. PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value 0,86±0,02	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	max. 1	ASTM F-2013-01
Acetaldehyde	ppm	min. 90	ASTM D-6290
Color L*		Max.(+1)	ASTM D-6290
Color b*		246±2	DIN 53765
Melting Point	°C % g/100	max. 0,2	DIN 51777 Part 2 (09/74)
Moisture Content	chips ppm	1,6±0,2 spherical	IQ 10692
Chip Size		max. 100	IQ 10702
Fines			

Specification PET type K-086

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and also lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures	
- Drying Time	160- 180°C
- Injection Temperatures	4 – 6 hours
	260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-086. All above mentioned results are based on our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.

TECHNICAL DATA SHEET

PET K-090

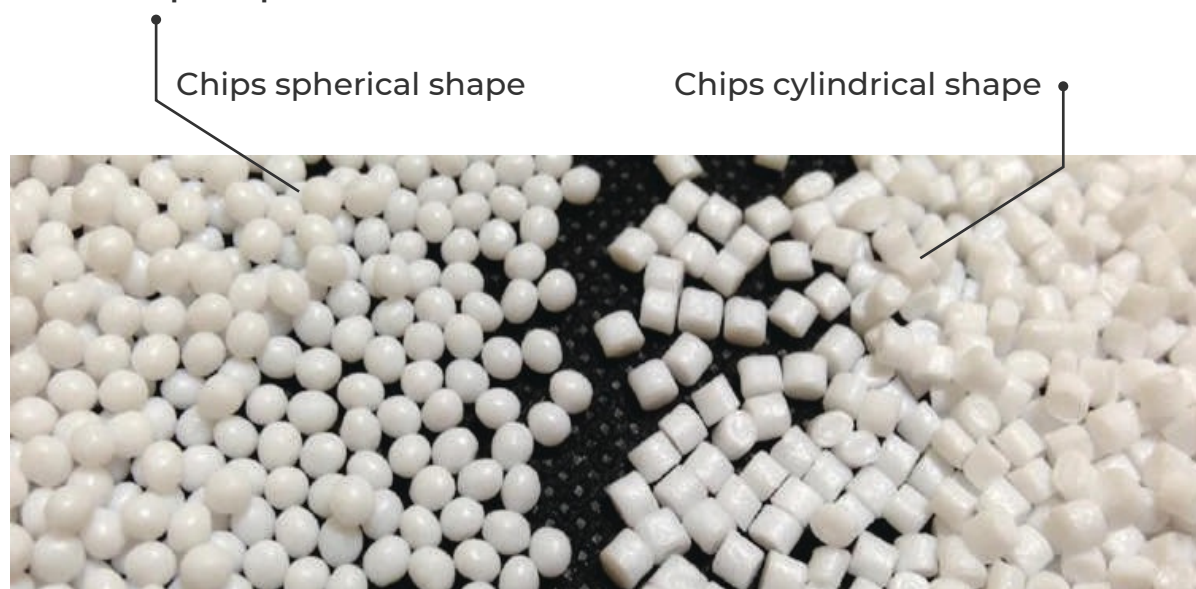
PET Resin is a general-purpose food grade PET copolymer resin that is suitable for a wide variety of applications like containers and films. Pet Resin offers excellent strength characteristics like dimensional stability and mechanical properties. PET Resin is suitable for injection, injection stretch blow molding and extrusion application mainly for carbonated soft drinks, water bottles, alcoholic beverages, households, oil, agrochemicals, wide mouth containers, PET sheets and film extrusion.

Property	Unit	Value	min.0,900	Test Method ISO 1628-5
Intrinsic Viscosity	dL/g	max.0,910		ASTM F-2013-01
Acetaldehyde	ppm	max. 1		ASTM D-6290
Color L*		min. 90		ASTM D-6290
Color b*		max.(+1)		DIN 53765
Melting Point	°C % g/100	246±2		DIN 51777 Part 2 (09/74)
Moisture Content	chips ppm	max. 0,2		IQ 10692
Chip Size		1,6±0,2		IQ 10702
Fines		max. 100		

Specification PET type K-090

Technology of Our Resin / Advantages

Pellet Shape / Spherical



No dust generation during conveying

Our PET Resin is produced using the latest state-of-art MTR technology with spherical pellet shape which ensures smooth conveying in long pipelines with near zero fines generation.

Save Energy during drying / injection process

The uniform spherical surface allows for easy flow of air around the PET pellets and not having any sharp corners helps in consistent drying at lower temperatures, saving valuable energy.

Uniform IV within Resin Pellet

The final viscosity is reached in the melt phase by MTR (Melt-to-Resin) Technology. Since the reaction continues in the melt phase, the IV is uniform within pellet. This property gives the polymer easy melting behavior. In conventional technology, the final viscosity is attained in SSP (Solid State Polycondensation) process. As is known, the heat transfer coefficient of PET is very low. So, the viscosity is not uniform within pellet.

Low AA generation during drying and injection process

The low crystallinity and heat of the resin provides unique advantages of low residual acetaldehyde generation in injection process and also lower energy requirement for bottle production.

Low Dust Content in Resin Pellet

Our latest state-of-art MTR with hot cutting technology ensures very low dust content in the resin pellets which helps superior product quality afterwards process.

Processing Conditions

The Processing condition depends on machines, product size and mold design.

- Drying Temperatures	
- Drying Time	160- 180°C
- Injection Temperatures	4 – 6 hours
	260 - 280°C

Recommendation

We advise our customers to use 12 – 8 C lower temperature and 60 – 30 min lower drying condition compared with the other PET resin which is produced with conventional SSP technology. In addition to the drying process, decreasing temperatures around 12 – 8 C during injection process give better results in our standard injection application.

Remark

The above results confirm our specification for type K-090. All above mentioned results are based on our PET Resin Laboratory conditions and its analytical methods shown. Any other/different analysis methods or conditions may give other/different values. Our PET Resin material will be accompanied by its Certificate of Analysis, with the relative representative average values of specified method/results. Our PET Resin shall not be responsible for the use of any products compliance, methods related to quality specifications and required regulations. No other warranty, either expressed or implied, regarding the suitability of the product for any particular purpose is made. Buyers must take their own determination about safety, health, environment protection and suitability of use for their intended purpose. No warranty is made of the merchantability or fitness of any products.



PET PREFORM

Intended to come into contact with food
For products made of PET (polyethylene terephthalate)

**WATER PREFORMS, CSD PREFORMS,
OIL PREFORMS AND OTHERS**



1. WATER PREFORMS

WATER PREFORMS

TWIST OFF - 29/25 NECK

TWIST OFF WATER PREFORMS 29/25 NECK	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
7,5 gr water preform (+/- 0,2 gr) V1	44	52	32.000	1.408.000	1.664.000
8,9 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
8,9 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
8,9 gr water preform (+/-0,2 gr) V3	44	52	25.344	1.115.136	1.317.888
9 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
9 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
9 gr water preform (+/-0,2 gr) V4	44	52	25.344	1.115.136	1.317.888
9,2 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
9,2 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
9,75 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
9,75 gr water preform (+/-0,2 gr) V2	44	52	25.344	1.115.136	1.317.888
9,75 gr water preform (+/-0,2 gr) V3	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr) V1	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr)V4	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr)V6	44	52	25.344	1.115.136	1.317.888
10 gr water preform (+/-0,2 gr) V9	44	52	25.344	1.115.136	1.317.888
10,5 gr water preform (+/-0,2 gr)V1	44	52	24.048	1.058.112	1.250.496
10,5 gr water preform (+/-0,2 gr) V3	44	52	24.064	1.058.816	1.251.328
10,5 gr water preform (+/-0,2 gr) V4	44	52	25.344	1.115.136	1.317.888
10,5 gr water preform (+/-0,2 gr) V5	44	52	25.344	1.115.136	1.317.888
11,2 gr water preform (+/-0,2 gr) V1	44	52	24.064	1.058.816	1.251.328
11,5 gr water preform (+/-0,2 gr)V1	44	52	24.048	1.058.112	1.250.496
11,5 gr water preform (+/-0,2 gr) V2	44	52	21.888	963.072	1.138.176
11,6 gr water preform (+/-0,2 gr) V1	44	52	21.248	934.912	1.104.896
12 gr water preform (+/-0,2 gr) V1	44	52	21.248	934.912	1.104.896
12 gr water preform (+/-0,2 gr) V2	44	52	21.248	934.912	1.104.896
12,4 gr water preform (+/-0,2 gr) V1	44	52	21.248	934.912	1.104.896
12,4 gr water preform (+/-0,2 gr) V3	44	52	21.248	934.912	1.104.896
14,3gr water preform (+/-0,2 gr) V2	44	52	21.248	934.912	1.104.896
20,5 gr water preform (+/-0,2 gr) V1	44	52	12.544	551.936	652.288
20.5 gr water preform (+/-0,2 gr) V2	44	52	12.544	551.936	652.288
22 gr water preform (+/-0,2 gr) V2	44	52	10.944	481.536	569.088
22 gr water preform (+/-0,2 gr) V3	44	52	12.544	551.936	652.288
23 gr water preform (+/-0,2 gr) V1	44	52	10.880	478.720	565.760
24gr water preform (+/-0,2 gr) V1	44	52	10.752	473.088	559.104
25gr water preform (+/-0,3 gr) V1	44	52	10.880	478.720	565.760
26,5gr water preform (+/-0,3 gr) V1	44	52	9.216	405.504	479.232
30gr water preform (+/-0,3 gr) V1	44	52	9.216	405.504	479.232

WATER PREFORMS

TWIST OFF - 30/25 NECK

TWIST OFF WATER PREFORMS 30/25 NECK	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
14gr water preform (+/-0,2 gr)	44	52	16.640	732.160	865.280
14,9gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
15,5gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
16gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
17,2gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
21gr water preform (+/-0,2 gr)	44	52	15.936	701.184	828.672
29gr water preform (+/-0,3 gr)	44	52	8.928	392.832	464.256
30gr water preform (+/-0,3 gr)	44	52	8.928	392.832	464.256
31,5gr water preform (+/-0,3 gr)	44	52	8.208	361.152	426.816
33 gr water preform (+/-0,3 gr)	44	52	8.208	361.152	426.816
36 gr water preform (+/-0,4 gr)	44	52	8.208	361.152	426.816
39gr water preform (+/-0,4 gr)	44	52	8.208	361.152	426.816

WATER PREFORMS

TWIST OFF - 38/33 NECK

TWIST OFF WATER PREFORMS 38/33 NECK	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
52 gr 38/33 preform (+/-0,6 gr) V1	44	52	4.416	194.304	229.632
52 gr 38/33 preform (+/-0,6 gr) V3	44	52	4.416	194.304	229.632
55 gr 38/33 preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
55 gr 38/33 preform (+/-0,6 gr) V2	44	52	4.032	177.408	209.664
55 gr 38/33 preform (+/-0,6 gr) V3	44	52	4.032	177.408	209.664
55 gr 38/33 preform (+/-0,6 gr) V4	44	52	4.032	177.408	209.664
57 gr 38/33 preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
57 gr 38/33 preform (+/-0,6 gr) V2	44	52	4.032	177.408	209.664
57 gr 38/33 preform (+/-0,6 gr) V3	44	52	4.032	177.408	209.664
59 gr 38/33 preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
59 gr 38/33 preform (+/-0,6 gr) V4	44	52	4.032	177.408	209.664
59,5 gr 38/33 preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
62,5 gr 38/33 preform (+/-0,6 gr) V1	44	52	4.032	177.408	209.664
71 gr 38/33 preform (+/-0,7 gr) V1	44	52	3.672	161.568	190.944
74,4 gr 38/33 preform (+/-0,7 gr) V1	44	52	3.672	161.568	190.944
74,4 gr 38/33 preform (+/-0,7 gr)	44	52	3.672	161.568	190.944
75 gr 38/33 preform (+/-0,7 gr)	44	52	4.032	177.408	209.664

WATER PREFORMS

TWIST OFF - 48/41 NECK

TWIST OFF WATER PREFORMS 48/41 NECK	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
67,5gr 48/41 preform (+/-0,7 gr)V1	44	52	3.168	139.392	164.736
67,5gr 48/41 preform (+/-0,7 gr) V2	44	52	3.196	140.624	166.192
70gr 48/41 preform (+/-0,7 gr)	44	52	3.168	139.392	164.736
75gr 48/41 preform (+/-0,8 gr)	44	52	2.848	125.312	148.096
81gr 48/41 preform (+/-0,8 gr)	44	52	2.848	125.312	148.096
83gr 48/41 preform (+/-0,8 gr)	44	52	2.640	116.160	137.280
84gr 48/41 preform (+/-0,8 gr)	44	52	2.848	125.312	148.096
90gr 48/41 preform (+/-0,9 gr) V1	44	52	2.848	125.312	148.096
90gr 48/41 preform (+/-0,9 gr) V2	44	52	2.640	116.160	137.280
110gr 48/41 preform (+/-1,1 gr)	44	52	2.272	99.968	118.144
120gr 48/41 preform (+/-1,2 gr)	44	52	2.040	89.760	106.080
120gr 48/41 preform (+/-1,2 gr)	44	52	2.048	90.112	106.496
124gr 48/41 preform (+/-1,2 gr)	44	52	2.040	89.760	106.080
124gr 48/41 preform (+/-1,2 gr)	44	52	2.048	90.112	106.496
130gr 48/41 preform (+/-1,3 gr)	44	52	2.040	89.760	106.080
130gr 48/41 preform (+/-1,3 gr)	44	52	2.048	90.112	106.496

WATER PREFORMS

SNAP ON 55MM NECK 5 GALLON

TWIST OFF WATER PREFORMS 48/41 NECK	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
285gr 55 mm preform (+/-3 gr)	88	104	728	64.064	75.712
300gr 55 mm preform (+/-3 gr) V1	88	104	728	64.064	75.712
300gr 55 mm preform (+/-3 gr) V2	88	104	728	64.064	75.712
330gr 55 mm preform (+/-3 gr)	88	104	728	64.064	75.712
350gr 55 mm preform (+/-3 gr)	88	104	728	64.064	75.712
668gr 55 mm preform (+/- 7 gr)V1			441		
668gr 55 mm preform (+/- 7 gr)V2			441		
677gr 55 mm preform (+/- 7 gr)			441		
680gr 55 mm preform (+/- 7 gr)		Based on tonnage	441		
708gr 55 mm preform (+/- 7 gr)			441		
717gr 55 mm preform (+/- 7 gr)			441		
720gr 55 mm preform (+/- 7 gr)			441		

2. CSD PREFORMS

CSD PREFORMS

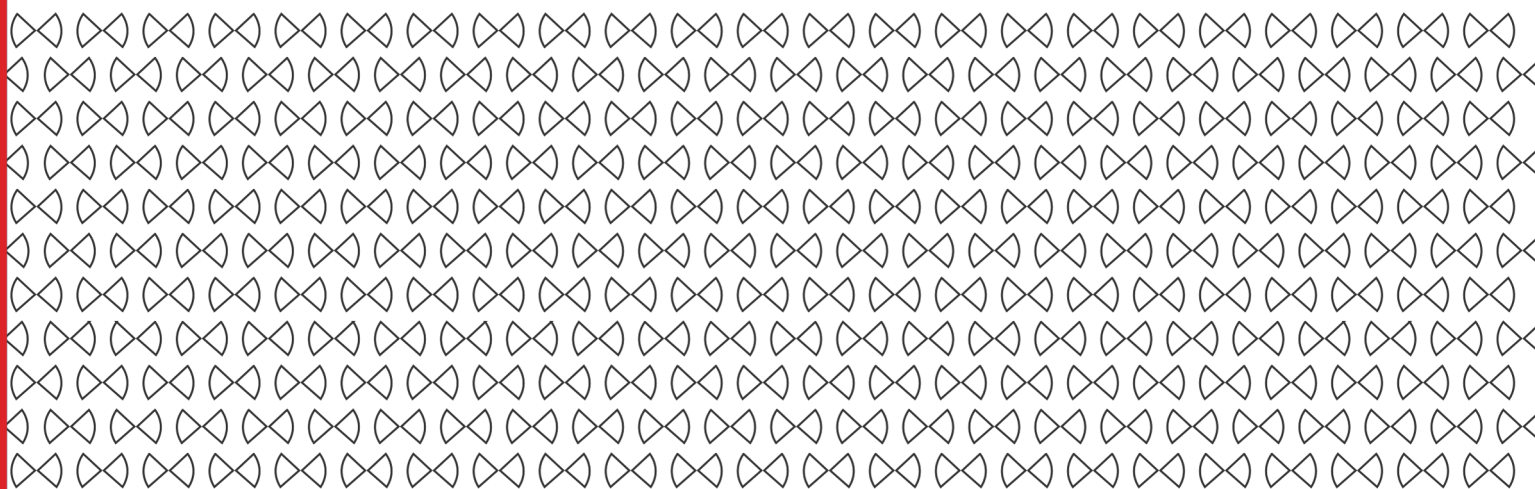
1881 NECK (28MM)

CSD PREFORMS 1881 NECK (28MM)	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
12gr PCO preform (+/- 0,2 gr) V1	44	52	21.120	929.280	1.098.240
12gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
12gr PCO preform (+/- 0,2 gr) V3	44	52	21.120	929.280	1.098.240
12gr PCO preform (+/- 0,2 gr) V4	44	52	22.400	985.600	1.164.800
12,4gr PCO preform (+/- 0,2 gr) V1	44	52	22.400	985.600	1.164.800
13gr PCO preform (+/- 0,2 gr) V1	44	52	21.120	929.280	1.098.240
13gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
14,5gr PCO preform (+/- 0,2 gr) V1	44	52	21.120	929.280	1.098.240
14,5gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
16 gr PCO preform (+/- 0,2 gr) V1	44	52	16.640	732.160	865.280
16gr PCO preform (+/- 0,2 gr) V2	44	52	21.120	929.280	1.098.240
16gr PCO preform (+/- 0,2 gr) V3	44	52	21.120	929.280	1.098.240
16 gr PCO preform (+/- 0,2 gr) V4	44	52	21.120	929.280	1.098.240
17 gr PCO preform (+/- 0,2 gr) V1	44	52	18.176	799.744	945.152
18,4gr PCO preform (+/- 0,2 gr) V1	44	52	15.744	692.736	818.688
18,4gr PCO preform (+/- 0,2 gr) V2	44	52	15.744	692.736	818.688
20 gr PCO preform (+/- 0,2 gr) V1	44	52	16.640	732.160	865.280
20 gr PCO preform (+/- 0,2 gr) V2	44	52	16.640	732.160	865.280
21 gr PCO preform (+/- 0,2 gr)	44	52	15.744	692.736	818.688
22,3 gr PCO preform (+/- 0,2 gr) V1	44	52	15.744	692.736	818.688
22,3gr PCO preform (+/- 0,2 gr) V2	44	52	16.256	715.264	845.312
22,3 gr PCO preform (+/- 0,2 gr) V3	44	52	15.744	692.736	818.688
22,3 gr PCO preform (+/- 0,2 gr) V4	44	52	15.744	692.736	818.688
23,2 gr PCO preform (+/- 0,2 gr)	44	52	16.640	732.160	865.280
24,65 gr PCO preform (+/- 0,2 gr)	44	52	15.744	692.736	818.688
25 gr PCO preform (+/- 0,3 gr)	44	52	11.520	506.880	599.040
25,6gr PCO preform (+/- 0,3 gr)	44	52	15.744	692.736	818.688
29 gr PCO preform (+/- 0,3 gr)	44	52	9.696	426.624	504.192
32 gr PCO preform (+/- 0,3 gr) V1	44	52	9.696	426.624	504.192
32gr PCO preform (+/- 0,3 gr) V2	44	52	9.696	426.624	504.192
35gr PCO preform (+/- 0,4 gr)	44	52	9.696	426.624	504.192
37,4gr PCO preform (+/- 0,4 gr)	44	52	8.704	382.976	452.608
38,5 gr PCO preform (+/- 0,4 gr)	44	52	8.704	382.976	452.608
40gr PCO preform(+/- 0,4 gr)	44	52	8.704	382.976	452.608
42,2gr PCO preform (+/- 0,4 gr)	44	52	8.704	382.976	452.608
46gr PCO preform (+/- 0,5 gr)	44	52	7.008	308.352	364.416
50gr PCO preform (+/- 0,5 gr)	44	52	7.008	308.352	364.416
52gr PCO preform (+/- 0,5 gr)	44	52	7.008	308.352	364.416

CSD PREFORMS

1810 NECK (28MM)

CSD PREFORMS 1810 NECK (28MM)	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
15gr PCO preform (+/- 0,2 gr)	44	52	17.952	789.888	933.504
16 gr PCO preform (+/- 0,2 gr)	44	52	15.104	664.576	785.408
17gr PCO preform (+/- 0,2 gr)	44	52	17.952	789.888	933.504
17,1gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
17,5gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
18,5 gr PCO preform (+/- 0,2 gr)	44	52	15.104	664.576	785.408
19 gr PCO preform (+/- 0,4 gr)	44	52	14.496	637.824	753.792
19,7gr PCO preform (+/- 0,2 gr)	44	52	15.104	664.576	785.408
20 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
21 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
22,5 gr PCO preform (+/- 0,2 gr)	44	52	14.496	637.824	753.792
25 gr PCO preform (+/- 0,3 gr) V1	44	52	14.496	637.824	753.792
25gr PCO preform (+/- 0,3 gr) V2	44	52	15.104	664.576	785.408
27 gr PCO preform (+/- 0,3 gr)	44	52	14.496	637.824	753.792
32gr PCO preform (+/- 0,3 gr) V2	44	52	8.352	367.488	434.304
32,2gr PCO preform (+/- 0,3 gr)	44	52	8.352	367.488	434.304
35gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
36gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
40,5gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
42gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
44gr PCO preform (+/- 0,4 gr)	44	52	8.352	367.488	434.304
48gr PCO preform (+/- 0,5 gr)	44	52	6.848	301.312	356.096
52gr PCO preform (+/- 0,5 gr)	44	52	6.464	284.416	336.128
54gr PCO preform (+/- 0,5 gr)	44	52	6.464	284.416	336.128



3. OIL PREFORMS & OTHERS

OIL PREFORMS & OTHERS SNAP ON EDIBLE 29/21 NECK (28MM)

SNAP ON EDIBLE OIL PREFORMS 29/21 NECK (28MM)	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
21 gr. S.ON preform (+/- 0,2 gr) V2	44	52	13.184	580.096	685.568
26,5 gr. S.ON preform (+/- 0,3 gr)	44	52	11.904	523.776	619.008
49 gr. S.ON preform (+/- 0,5 gr)	44	52	7.680	337.920	399.360

WATER PREFORMS SNAP ON EDIBLE 35/27 NECK (32MM)

SNAP ON EDIBLE OIL PREFORMS 35/27 NECK (32MM)	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
22,5 gr. S.ON preform (+/- 0,2 gr) V2	44	52	10.368	456.192	539.136
23 gr. S.ON preform (+/- 0,2 gr) V1	44	52	10.368	456.192	539.136
25 gr. S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
25 gr. S.ON preform (+/- 0,3 gr) V2	44	52	10.368	456.192	539.136
26 gr. S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
26 gr. S.ON preform (+/- 0,3 gr) V2	44	52	10.368	456.192	539.136
27 gr. S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
29 gr. S.ON preform (+/- 0,3 gr) V1	44	52	10.368	456.192	539.136
49 gr. S.ON preform (+/- 0,5 gr) V1	44	52	7.040	309.760	366.080

OIL PREFORMS & OTHERS

HOTFILL PREFORMS (33MM)

CSD PREFORMS 1810 NECK (28MM)	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
15gr H.F2 preform (+/- 0,2 gr)	44	52	18.240	802.560	948.480
17gr H.F2 preform (+/- 0,2 gr)	44	52	18.240	802.560	948.480
19,15gr H.F2 preform (+/- 0,2 gr)	44	52	18.240	802.560	948.480
27gr H.F2 preform (+/- 0,3 gr)	44	52	10.272	451.968	534.144
29,5gr H.F2 preform (+/- 0,3 gr)	44	52	10.272	451.968	534.144
40gr H.F2 preform (+/- 0,4 gr)	44	52	7.680	337.920	399.360
42gr H.F2 preform (+/- 0,4 gr)	44	52	7.680	337.920	399.360

OIL PREFORMS & OTHERS

HOTFILL PREFORMS (37MM)

HOTFILL PREFORMS (37MM)	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
57gr H.F2 preform (+/- 0,6 gr)	44	52	6.240	274.560	324.480
80gr H.F2 preform (+/- 0,8 gr)	44	52	4.176	183.744	217.152

OIL PREFORMS & OTHERS

PCF 26P-2

PCF 26P-2	PALLET QUANTITY IN 40HC CONT.	PALLET QUANTITY IN TRUCK	PREFORM QTY. ON 1 PALLET	TOTAL QTY. IN 40HC CONT.	TOTAL QTY. IN TRUCK
16,5 gr PCF 26P-2 (+/- 0,2 gr)	44	52	15.744	692.736	818.688





PE CLOSURE

for products made of PE (polyethylene) intended
to come into contact with food

WATER CLOSURES, CSD CLOSURES AND OIL CLOSURES



1. WATER CLOSURE

WATER CLOSURE

NECK FINISH 29/25 (72 KNUURL)

Details	NECK FINISH 29/25 (72 KNUURL) WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 28,3 mm• Outer Diameter: 31,05 mm• Height: 11,4 mm• Weight: 1,24 gr• Quantity in Box: 7000 pcs• Roof thickness: 0,55 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Company logo-printed on to top or a tailor-made engraved design could be provided upon request
APPLICATIONS	<ul style="list-style-type: none">• 29/25 Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Injection molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• Still mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*393) packed in cardboard boxes. There are 7000 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 780 boxes• Truck without pallet (bulk): 950 box• Container with pallet: 660 boxes• container without pallet (bulk): 750 boxes• Net: 8680 gr Gross: 9760 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.
TAMPER EVIDENCE	<ul style="list-style-type: none">• Drop TE band

WATER CLOSURE

NECK FINISH 29/25 (120 KNURL)

Details	NECK FINISH 29/25 (120 KNURL) WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter:28.3 mm• Outer Diameter:31.05 mm• Height:11.4 mm• Weight: 1,26 gr• Quantity in Box: 7000pcs• Roof thickness: 0.55 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory tests
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Company logo-printed on to top or a tailor-made engraved design could be provided upon request
APPLICATIONS	<ul style="list-style-type: none">• 29/25 Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Injection molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• Still mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*393) packed in cardboard boxes. There are 7000 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 780 boxes• Truck without pallet (bulk): 950 boxes• Container with pallet: 660 boxes• Container without pallet (bulk): 750 boxes
BOX WEIGHT	<ul style="list-style-type: none">• Net: 8960 gr Gross: 10035 gr
STORAGE CONDITION	<ul style="list-style-type: none">• Should be stored at room temperature with no more than 30 boxes on each pallet.
TAMPER EVIDENCE	<ul style="list-style-type: none">• Drop TE band

WATER CLOSURE

NECK FINISH 29/25 (72 KNURL) CONICAL

Details	NECK FINISH 29/25 (72 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 28,25 mm• Outer Diameter: 31,2 mm• Height: 11,4 mm• Weight: 1,35 gr• Quantity in Box: 4000 pcs• Roof thickness: 0,65 mm
RAW MATERIAL LINER	<ul style="list-style-type: none">• HDPE• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Company logo-printed on to top or a tailor-made engraved design could be provided upon request
APPLICATIONS	<ul style="list-style-type: none">• 29/25 Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Compression molding (Coke Approved)
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• Still mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*298) packed in cardboard boxes. There are 4000 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 1040 boxes• Truck without pallet (bulk): 1200 box (2,6m height)• Container with pallet: 880 boxes• container without pallet (bulk): 990 boxes• Net: 5400 gr Gross: 6430 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 40
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.• Slit TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">•

WATER CLOSURE

NECK FINISH 29/25 (72 KNURL) CONICAL

Details	NECK FINISH 29/25 (72 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 28,25 mm• Outer Diameter: 31,2 mm• Height: 11,4 mm• Weight: 1,27 gr• Quantity in Box: 4000 pcs• Roof thickness: 0,55 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Company logo-printed on to top or a tailor-made engraved design could be provided upon request
APPLICATIONS	<ul style="list-style-type: none">• 29/25 Neck diameter plastic bottles
CLOSURE TYPE Lorem ipsum	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Compression molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• Still mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*298) packed in cardboard boxes. There are 4000 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 1040 boxes• Truck without pallet (bulk): 1200 box (2,6m height)• Container with pallet: 880 boxes• container without pallet (bulk): 990 boxes• Net: 5080 gr Gross: 6110 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 40
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.• Slit TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">•

WATER CLOSURE

NECK FINISH 29/25 (72 KNURL) CONICAL

Details	NECK FINISH 29/25 (72 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 28,25 mm• Outer Diameter: 31 mm• Height: 11,3 mm• Weight: 1,25 gr• Quantity in Box: 4000 pcs• Roof thickness: 0,55 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Company logo-printed on to top or a tailor-made engraved design could be provided upon request
APPLICATIONS	<ul style="list-style-type: none">• 29/25 Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Compression molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• Still mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*298) packed in cardboard boxes. There are 4000 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 1040 boxes• Truck without pallet (bulk): 1200 box (2,6m height)• Container with pallet: 880 boxes• container without pallet (bulk): 990 boxes• Net: 5000 gr Gross: 6030 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 40
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.• Slit TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">•

WATER CLOSURE

NECK FINISH 30/25

(90 KNURL)

Details	NECK FINISH 30/25 (90 KNURL) WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none"> Inner Diameter: 28,8 mm Outer Diameter: 32,05 mm Height: 16,4 mm Weight: 1,68 gr Quantity in Box: 4300 pcs Roof thickness: 0,6 mm
RAW MATERIAL	<ul style="list-style-type: none"> HDPE
LINER	<ul style="list-style-type: none"> Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none"> Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none"> There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none"> Engraving or embossing logo design
APPLICATIONS	<ul style="list-style-type: none"> 30/25 Neck diameter plastic bottles
CLOSURE TYPE Lorem ipsum	<ul style="list-style-type: none"> 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none"> Injection molding
FILLING TECHNOLOGY	<ul style="list-style-type: none"> Cold filling
MARKET SEGMENT	<ul style="list-style-type: none"> Still mineral water
PACKAGING	<ul style="list-style-type: none"> (595*385*393) packed in cardboard boxes. There are 4300 pieces in the box.
LOADING	<ul style="list-style-type: none"> Truck with pallet: 780 boxes Truck without pallet (bulk): 950 box Container with pallet: 660 boxes container without pallet (bulk): 750 boxes Net: 7225 gr Gross: 8300 gr
BOX WEIGHT	<ul style="list-style-type: none"> Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none"> boxes on each pallet. Drop TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">

WATER CLOSURE

NECK FINISH 55 MM, 5-GALLON (19 LT) SNAP ON (HOD) BOTTLED

Details	NECK FINISH 55 mm,5-Gallon (19 lt) SNAP ON (HOD) BOTTLED WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Outer Diameter: 56,9 mm• Height: 34 mm (54,9 with handle)• Weight: 8,25 gr• Quantity in Box: 600 pcs• Roof thickness: 0,9 mm
RAW MATERIAL	<ul style="list-style-type: none">• LDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Engraving or embossing logo design
APPLICATIONS	<ul style="list-style-type: none">• 5-gallon,55 mm neck diameter plastic bottles PET/PC app.
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece snap on cap/easy open
PRODUCTION METHOD	<ul style="list-style-type: none">• Injection molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• Bottled water
PACKAGING	<ul style="list-style-type: none">• (595*385*393) packed in cardboard boxes. There are 600 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 780 boxes• Truck without pallet (bulk): 950 box• Container with pallet: 660 boxes• container without pallet (bulk): 750 boxes• Net: 4950 gr Gross: 5980 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.
TAMPER EVIDENCE	<ul style="list-style-type: none">• Tear-off

WATER CLOSURE

NECK FINISH 55 MM, 5-GALLON (19 LT) SNAP ON (HOD) BOTTLED

Details	NECK FINISH 55 mm,5-Gallon (19 lt) SNAP ON (HOD) BOTTLED WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Outer Diameter: 56,9 mm• Height: 32 mm (52,9 with handle)• Weight: 7,6 gr• Quantity in Box: 700 pcs• Roof thickness: 0,9 mm
RAW MATERIAL	<ul style="list-style-type: none">• LDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE APPLICATIONS Lorem ipsum	<ul style="list-style-type: none">• Engraving or embossing logo design• 5-gallon,55 mm neck diameter plastic bottles PET/PC app.• 1-piece snap on cap/easy open
CLOSURE TYPE	<ul style="list-style-type: none">• Injection molding
PRODUCTION METHOD	<ul style="list-style-type: none">• Cold filling
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Bottled water
MARKET SEGMENT	<ul style="list-style-type: none">• (595*385*393) packed in cardboard boxes.There are 700 pieces in the box.
PACKAGING	<ul style="list-style-type: none">• Truck with pallet: 780 boxes
LOADING	<ul style="list-style-type: none">• Truck without pallet (bulk): 950 box• Container with pallet: 660 boxes• container without pallet (bulk): 750 boxes• Net: 5320 gr Gross: 6350 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.
TAMPER EVIDENCE	<ul style="list-style-type: none">• Tear-off

WATER CLOSURE

NECK FINISH 38MM (90 KNURL) CONICAL

Details	NECK FINISH 38mm (90 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 36,4 mm+K2:K25• Outer Diameter: 40,9 mm• Height: 14,6 mm• Weight: 2,6 gr• Quantity in Box: 2000 pcs• Roof thickness: 0,60 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Engraving or embossing logo design
APPLICATIONS	<ul style="list-style-type: none">• 38mm Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Compression molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling and Cold Aseptic Filling
MARKET SEGMENT	<ul style="list-style-type: none">• Still mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*298) packed in cardboard boxes. There are 4000 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 1040 boxes• Truck without pallet (bulk): 1200 box (2,6m height)• Container with pallet: 880 boxes• container without pallet (bulk): 990 boxes• Net: 5200 gr Gross: 6235 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 40
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.• Slit TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">•

WATER CLOSURE

NECK FINISH 48MM

(120 KNURL)

Details	NECK FINISH 48mm (120 KNURL) WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none"> Inner Diameter: 45,85 mm Outer Diameter: 49,9 mm Height: 17,1 mm Weight: 4,6 gr Quantity in Box: 1700 pcs Roof thickness: 0,90 mm
RAW MATERIAL	<ul style="list-style-type: none"> HDPE
LINER	<ul style="list-style-type: none"> Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none"> Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none"> There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none"> Engraving or embossing logo design
APPLICATIONS	<ul style="list-style-type: none"> 48mm Neck diameter plastic bottles
CLOSURE TYPE Lorem ipsum	<ul style="list-style-type: none"> 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none"> Compression molding
FILLING TECHNOLOGY	<ul style="list-style-type: none"> Cold filling and Cold Aseptic Filling
MARKET SEGMENT	<ul style="list-style-type: none"> Still mineral water
PACKAGING	<ul style="list-style-type: none"> (595*385*393) packed in cardboard boxes. There are 3000 pieces in the box.
LOADING	<ul style="list-style-type: none"> Truck with pallet: 780 boxes Truck without pallet (bulk): 950 box Container with pallet: 660 boxes container without pallet (bulk): 750 boxes Net: 7820 gr Gross: 8900 gr
BOX WEIGHT	<ul style="list-style-type: none"> Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none"> boxes on each pallet. Slit TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">

WATER CLOSURE

NECK FINISH 38MM (90 KNURL) CONICAL

Details	NECK FINISH 38mm (90 KNURL) CONICAL WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 36,4 mm+K2:K25• Outer Diameter: 40,9 mm• Height: 14,6 mm• Weight: 2,6 gr• Quantity in Box: 2000 pcs• Roof thickness: 0,60 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Engraving or embossing logo design
APPLICATIONS	<ul style="list-style-type: none">• 38mm Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Compression molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling and Cold Aseptic Filling
MARKET SEGMENT	<ul style="list-style-type: none">• Still mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*298) packed in cardboard boxes. There are 4000 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 1040 boxes• Truck without pallet (bulk): 1200 box (2,6m height)• Container with pallet: 880 boxes• container without pallet (bulk): 990 boxes• Net: 5200 gr Gross: 6235 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 40
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.• Slit TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">•

WATER CLOSURE

NECK FINISH 48MM

(120 KNURL)

Details	NECK FINISH 48mm (120 KNURL) WATER CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none"> Inner Diameter: 45,85 mm Outer Diameter: 49,9 mm Height: 17,1 mm Weight: 4,6 gr Quantity in Box: 1700 pcs Roof thickness: 0,90 mm
RAW MATERIAL	<ul style="list-style-type: none"> HDPE
LINER	<ul style="list-style-type: none"> Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none"> Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none"> There are 2 types standart color production. Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none"> Engraving or embossing logo design
APPLICATIONS	<ul style="list-style-type: none"> 48mm Neck diameter plastic bottles
CLOSURE TYPE Lorem ipsum	<ul style="list-style-type: none"> 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none"> Compression molding
FILLING TECHNOLOGY	<ul style="list-style-type: none"> Cold filling and Cold Aseptic Filling
MARKET SEGMENT	<ul style="list-style-type: none"> Still mineral water
PACKAGING	<ul style="list-style-type: none"> (595*385*393) packed in cardboard boxes. There are 3000 pieces in the box.
LOADING	<ul style="list-style-type: none"> Truck with pallet: 780 boxes Truck without pallet (bulk): 950 box Container with pallet: 660 boxes container without pallet (bulk): 750 boxes Net: 7820 gr Gross: 8900 gr
BOX WEIGHT	<ul style="list-style-type: none"> Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none"> boxes on each pallet. Slit TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">

2. CSD CLOSURE

CSD CLOSURE

NECK FINISH PCO 1810 (120 KNURL)

Details	NECK FINISH PCO 1810 (120 KNURL) CSD CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 25,8 mm• Outer Diameter: 30,00 mm• Height: 19,85 mm• Weight: 2,9 gr• Quantity in Box: 4100 pcs• Roof thickness: 1,4 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Can make max.3 color printing on top of the cap
APPLICATIONS	<ul style="list-style-type: none">• 1810 PCO Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Injection molding
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• CSD,Nectars,Fruit juices,Still/Sparkling mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*393) packed in cardboard boxes. There are 4100 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 780 boxes• Truck without pallet (bulk): 950 box• Container with pallet: 660 boxes• container without pallet (bulk): 750 boxes• Net: 11900 gr Gross: 12975 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none">• boxes on each pallet.
TAMPER EVIDENCE	<ul style="list-style-type: none">• Drop TE band

CSD CLOSURE

NECK FINISH PCO 1881 (120 KNURL)

Details	NECK FINISH PCO 1881 (120 KNURL) CSD CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none"> • Inner Diameter: 25,7 mm • Outer Diameter: 30,05 mm • Height: 15,90 mm • Weight: 2,37 gr • Quantity in Box: 5600 pcs • Roof thickness: 1,4 mm
RAW MATERIAL	• HDPE
LINER	• Without Liner
PREPARATION BEFORE USE	• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	• Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	• Can make max.3 color printing on top of the cap
APPLICATIONS	• 1881 PCO Neck diameter plastic bottles
CLOSURE TYPE	• 1-piece screw cap
PRODUCTION METHOD	• Injection molding (Coke approved)
FILLING TECHNOLOGY	• Cold filling
MARKET SEGMENT	• CSD,Nectars,Fruit juices,Still/Sparkling mineral water
PACKAGING	• (595*385*393) packed in cardboard boxes.There are 5600 pieces in the box.
LOADING	<ul style="list-style-type: none"> • Truck with pallet: 780 boxes • Truck without pallet (bulk): 950 box • Container with pallet: 660 boxes • container without pallet (bulk): 750 boxes • Net: 13270 gr Gross: 14350 gr
BOX WEIGHT	• Should be stored at room temperature with not more than 30
STORAGE CONDITION	• boxes on each pallet. Drop TE band
TAMPER EVIDENCE	•

CSD CLOSURE

NECK FINISH PCO 1881 (120 KNURL)

Details	NECK FINISH PCO 1881 (120 KNURL) CSD CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 25,7 mm• Outer Diameter: 30,05 mm• Height: 15,70 mm• Weight: 2,3 gr• Quantity in Box: 5600 pcs• Roof thickness: 1,25 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Can make max.3 color printing on top of the cap
APPLICATIONS	<ul style="list-style-type: none">• 1881 PCO Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Injection molding (Coke approved)
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Cold filling
MARKET SEGMENT	<ul style="list-style-type: none">• CSD,Nectars,Fruit juices,Still/Sparkling mineral water
PACKAGING	<ul style="list-style-type: none">• (595*385*393) packed in cardboard boxes.There are 5600 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 780 boxes• Truck without pallet (bulk): 950 box• Container with pallet: 660 boxes• container without pallet (bulk): 750 boxes• Net: 12880 gr Gross: 13960 gr
BOX WEIGHT	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 30 boxes on each pallet.
STORAGE CONDITION	<ul style="list-style-type: none">• Drop TE band
TAMPER EVIDENCE	<ul style="list-style-type: none">•

CSD CLOSURE

NECK FINISH PCO 1881 (120 KNURL)

Details	NECK FINISH PCO 1881 (120 KNURL) CSD CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none"> • Inner Diameter: 25,7 mm • Outer Diameter: 30,05 mm • Height: 15,55 mm • Weight: 2,15 gr • Quantity in Box: 5600 pcs • Roof thickness: 1,05 mm
RAW MATERIAL	• HDPE
LINER	• Without Liner
PREPARATION BEFORE USE	• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	• Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	• Can make max.3 color printing on top of the cap
APPLICATIONS	• 1881 PCO Neck diameter plastic bottles
CLOSURE TYPE	• 1-piece screw cap
PRODUCTION METHOD	• Injection molding
FILLING TECHNOLOGY	• Cold filling
MARKET SEGMENT	• CSD,Nectars,Fruit juices,Still/Sparkling mineral water
PACKAGING	• (595*385*393) packed in cardboard boxes.There are 5600 pieces in the box.
LOADING	<ul style="list-style-type: none"> • Truck with pallet: 780 boxes • Truck without pallet (bulk): 950 box • Container with pallet: 660 boxes • container without pallet (bulk): 750 boxes • Net: 12040 gr Gross: 13120 gr
BOX WEIGHT	• Should be stored at room temperature with not more than 30
STORAGE CONDITION	• boxes on each pallet. Drop TE band
TAMPER EVIDENCE	•

3. OIL CLOSURE

CSD CLOSURE

NECK FINISH 33/15 HF2 HOTFILL CLOSURES (120 KNURL)

Details	NECK FINISH 33/15 HF2 HOTFILL CLOSURES (120 KNURL)
PHYSICAL PROPERTIES	<ul style="list-style-type: none">• Inner Diameter: 30,5 mm• Outer Diameter: 34,6 mm• Height: 14,50 mm• Weight: 2,50 gr• Quantity in Box: 2800 pcs• Roof thickness: 1,00 mm
RAW MATERIAL	<ul style="list-style-type: none">• HDPE
LINER	<ul style="list-style-type: none">• Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none">• Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none">• Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none">• Engraving or embossing logo design
APPLICATIONS	<ul style="list-style-type: none">• 33/15 HF2 Neck diameter plastic bottles
CLOSURE TYPE	<ul style="list-style-type: none">• 1-piece screw cap
PRODUCTION METHOD	<ul style="list-style-type: none">• Compression (Coke Approved)
FILLING TECHNOLOGY	<ul style="list-style-type: none">• Hot Filling
MARKET SEGMENT	<ul style="list-style-type: none">• Ice Tea and Fruit Juice
PACKAGING	<ul style="list-style-type: none">• (595*385*298) packed in cardboard boxes. There are 2800 pieces in the box.
LOADING	<ul style="list-style-type: none">• Truck with pallet: 1040 boxes••• Container with pallet: 880 boxes•
BOX WEIGHT	<ul style="list-style-type: none">• Net: 7000 gr Gross: 8030 gr
STORAGE CONDITION	<ul style="list-style-type: none">• Should be stored at room temperature with not more than 30 boxes on each pallet.
TAMPER EVIDENCE	<ul style="list-style-type: none">• Slit TE Band

CSD CLOSURE

NECK FINISH 29/21 EDIBLE OIL SNAP ON CLOSURES

Details	NECK FINISH 29/21 EDIBLE OIL SNAP ON CLOSURES
PHYSICAL PROPERTIES	<ul style="list-style-type: none"> • Inner Diameter: 27,8 mm • Outer Diameter: 30,1 mm • Height: 12,90 mm • Weight: 1,71 gr • Quantity in Box: 5500 pcs • Roof thickness: 1,00 mm
RAW MATERIAL	<ul style="list-style-type: none"> • LDPE
LINER	<ul style="list-style-type: none"> • Without Liner
PREPARATION BEFORE USE	<ul style="list-style-type: none"> • Max 5C° degree temperature difference allowance between caps and production environment
COLOR	<ul style="list-style-type: none"> • Customer special colors can be made upon request after the trials and laboratory testings
LOGO , COMPANY IMAGE	<ul style="list-style-type: none"> • Generally unusable
APPLICATIONS	<ul style="list-style-type: none"> • 29/21 Neck Oil bottles
CLOSURE TYPE	<ul style="list-style-type: none"> • 1-piece snap on cap
PRODUCTION METHOD	<ul style="list-style-type: none"> • Injection molding
FILLING TECHNOLOGY	<ul style="list-style-type: none"> • Cold filling
MARKET SEGMENT	<ul style="list-style-type: none"> • Edible Oil
PACKAGING	<ul style="list-style-type: none"> • (595*385*393) packed in cardboard boxes. There are 5500 pieces in the box.
LOADING	<ul style="list-style-type: none"> • Truck with pallet: 780 boxes • Container with pallet: 660 boxes • Truck without pallet (bulk): 950 boxes • Container without pallet (bulk): 750 boxes • Net: 9405 gr Gross: 10480 gr
BOX WEIGHT	<ul style="list-style-type: none"> • Should be stored at room temperature with not more than 30
STORAGE CONDITION	<ul style="list-style-type: none"> • boxes on each pallet. • Tear Band
TAMPER EVIDENCE	<ul style="list-style-type: none"> •

PET SHEET (ROLL)

for products made of PET (polyethylene terephthalate)
intended to come into contact with food



PET SHEET (ROLL)

Details	PET SHEET (ROLL)
RAW MATERIAL	PET (VIRGIN, R-PET, FLAKES, RE-GRINDING PET SHEET)
THICKNESS	150µm - 1500µm
WIDTH	200 mm - 1450 mm
LAMINATION OPTIONS	PE / EVOH / EVAHTHERMAL FILMS (PEALABLE&SEALABLE)
DENSITY	1.37 gr/cm ³
OXYGEN PERMEABILITY	1.1735 ml/m ² day in room temperature.
TRANSPARENCY	88%
CORE DIMENSIONS	3"- 6"
PRODUCTION METHOD	Co-Extrusion, 3-Layer (A-B-A), Lamination, Mono Pet Sheet.
COLOR OPTIONS	Clear, Black, White, Brown, Purple, Red, Yellow, Blue, Grey, Green.
SURFACE APPLICATIONS	Anti-Static, Anti Block, Antifog, Liquid Silicone, Anti-Freeze etc.
FOOD CONTACT	Full compliance with food contact regulations (FDA and EU).
CHEMICAL SPECIFICATIONS	Resistant to acids. Not recommended for use with high alkalized solutions.
THERMOFORMING TEMPERATURE	(120 - 160 °C), forming in cooled mold.
ENVIRONMENTAL RESPONSIBILITY	In full regulations with EU standards.
PACKING OPTIONS	EAN or Barcode printing options available.



PET FLAKES

Recycled pieces of PET, used as raw material to produce new PET products intended to come into contact with food



POST CONSUMER PET FLAKES

COLOR : CLEAR+LIGHT BLUE MIX

MAXIMUM 30 % LIGHT BLUE
AND 70 % CLEAR

Parameter	Unit	Specification
IV (Intrinsic Viscosity)	dl/g	0,74-0,80
-COOH END GROUPS	meq/kg	30±5
Colorful PET Amount (Except Clear Blue)	ppm	< 50
Particle Size	mm	2-12
Bulk Density	kg/m ³	300±20
Moisture Amount	%	< 1
Color	L*	55-83
Color	b*	-11,5±3
PVC Content	ppm	< 10
Metal Content	ppm	< 3
Paper/Label Content	ppm	< 5
Stone+Wood Content	ppm	< 5
Non-soluble Particles	ppm	< 20
Stale Rate	ppm	<3000
Impurity Ratio	ppm	<50



CERTIFICATES

