

Thermoplastic Rubber (TPR) Compound

Sr. No	Grades	Parameter	Color	Specific gravity	MFI	Hardness	Tensile strength	Elongation at break	Tear strength	Abrasion Resistance	Bennewart flex- cut growth less then 6mm in 30k cycles	Surface Appearance	Application
		Unit	-	-	gm/10min	Shore A	kg/cm ²	%	kg/cm	mm ³	-		
		Test Method	Visual	ASTM D792	ASTM D1238	ASTM D2240	ASTM D412	ASTM D412	ASTM D624	DIN 53516	SATRA TM-161		
1	OMX	Opaque	Visual To match with standard	1.00 ± 0.01	≥ 40	60±2	≥ 40	≥ 450	≥ 20	≤ 250	PASS	Shiny	Black and Brown Soles
2	OMVC			1.00 ± 0.01	≥ 40	60±2	≥ 40	≥ 450	≥ 20	≤ 250	PASS	Shiny	Opaque Color Soles
3	OMM 120			1.00 ± 0.01	≥ 40	60±2	≥ 40	≥ 450	≥ 20	≤ 250	PASS	Shiny	General Soles with higher slip resistance
4	OMEH	Translucent		0.98 ± 0.02	≥ 40	60±2	≥ 40	≥ 500	≥ 20	≤ 220	PASS	Translucent, Shiny	Soles with Medium Transperency
5	OMH			0.96 ± 0.02	≥ 40	60±2	≥ 40	≥ 550	≥ 21	≤ 200	PASS	Translucent, Shiny	Soles with Regular Transperency
6	OMHP			0.94 ± 0.02	≥ 50	60±2	≥ 40	≥ 650	≥ 21	≤ 200	PASS	Translucent, Shiny	Soles with Higher Transperency
7	TPT	Semi-Transparent		0.93 ± 0.02	≥ 100	60±2	≥ 45	≥ 650	≥ 22	≤ 180	PASS	Translucent	Soles, Compounding modifier
8	TP	Transparent		0.92 ± 0.02	≥ 50	60±2	≥ 45	≥ 750	≥ 22	≤ 180	PASS	Transparent	Water transparent Soles
9	OMMX	Lightweight*		0.75 ± 0.02	≥ 60	60±2	≥ 35	≥ 500	≥ 21	≤ 300	PASS	Matt	Medium lightweight sole
10	OMEX			0.60 ± 0.02	≥ 100	60±2	≥ 35	≥ 600	≥ 22	≤ 380	PASS	Matt	Regular lightweight sole
11	OMEX-N			0.60 ± 0.02	≥ 120	60±2	≥ 35	≥ 600	≥ 22	≤ 380	PASS	Matt	Superlight weight sole
12	OM C100	Rubberized		0.94 ± 0.02	≥ 50	60±2	≥ 40	≥ 500	≥ 22	≤ 240	PASS	Rubberized Semi matt	Rubberized Soles, Semi matt
13	OM C150			0.92 ± 0.02	≥ 50	60±2	≥ 40	≥ 550	≥ 22	≤ 220	PASS	Rubberized Matt	Rubberized Soles, Dual Matt
14	OM C220			0.90 ± 0.02	≥ 50	60±2	≥ 40	≥ 600	≥ 22	≤ 150	PASS	Rubberized Matt	Rubberized Soles, Dual Matt
15	HNHT	Welt		0.96 ± 0.02	≥ 40	80±2	≥ 55	≥ 500	≥ 30	≤ 250	NA	Shiny	Shoe Welt
16	HDBT			0.96 ± 0.02	≥ 40	80±2	≥ 55	≥ 450	≥ 30	≤ 250	NA	Matt	Shoe Welt
17	HNBP			0.93 ± 0.02	≥ 40	90±2	≥ 55	≥ 500	≥ 30	≤ 200	NA	Transparent	Shoe Welt
18	OMLH	Economic		0.98 ± 0.02	≥ 40	60±2	≥ 38	≥ 500	≥ 22	≤ 250	PASS	Shiny	Honey color Soles
19	OMZ			1.018 ± 0.02	≥ 40	60±2	≥ 35	≥ 400	≥ 20	≤ 260	PASS	Shiny	Opaque Color Soles
20	OMVX+			1.02 ± 0.02	≥ 35	60±2	≥ 35	≥ 400	≥ 20	≤ 260	PASS	Shiny	Black and Brown Soles only
21	OMVX			1.02 ± 0.02	≥ 35	60±2	≥ 35	≥ 400	≥ 20	≤ 280	PASS	Shiny	Black and Brown Soles only
22	OMD			1.03 ± 0.02	≥ 35	60±2	≥ 35	≥ 350	≥ 20	≤ 300	PASS	Shiny	Black and Brown Soles only
23	OMLD			1.04 ± 0.02	≥ 35	60±2	≥ 35	≥ 300	≥ 18	≤ 350	NA	Shiny	Domestic Black and Brown Soles only

* The molding temperature of lightweight materials is 145-150°C . To get the best results optimize the parameter accordingly.

Bennewart flex depends on material properties as well as sole surface pattern. The flexing test is performed on the company standard sole.

All above grades are available in different colours and Hardness 40 to 80 Shore A. Properties may vary with change in Hardness of the compounding.

All our Regular, special, and Welt TPR compounds are REACh compliant.

Suitability of the product for particular application may be confirmed before use.

The above properties are indicative and represents the values as tested on standard sheet.