SABIC® HDPE B5628

TECHNICAL DATA SHEET HIGH DENSITY POLYETHYLENE

DESCRIPTION

HDPE B5628 is a High Density Polyethylene specially developed for small blow molded bottles. The material offers easy flow, higher stiffness, good combination of ESCR and sufficient impact strength.

TYPICAL APPLICATIONS

B5628 is specially designed for: ˇ Industrial Chemicals & Parts ˇ Bleach and Detergents ˇ Personal Care Products

This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20240815

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES (1)			
Melt Flow Rate (MFR)			
@ 190°C & 21.6 kg load	24	g/10 min	ASTM D1238
@ 190°C & 2.16 kg load	0.32	g/10 min	ASTM D1238
Density			
@23°C	955	kg/m³	ASTM D1505
MECHANICAL PROPERTIES (2)			
Tensile Properties			
Tensile Strength at Yield, 500mm/min, Type IV bar	30	MPa	ASTM D638
Tensile Elongation			
@ Break, 10mm/min, Type IV bar	> 903	%	ASTM D638
Flexural Modulus			
Tangent - 16:1 span:depth, 0.5 in/min	1120	MPa	ASTM D790
Izod Impact @ 23oC	148	J/m	ASTM D256
Durometer Hardness			
(Shore D)	58	-	ASTM D2240
ESCR			
Condition B (10% Igepal), F50	400	h	ASTM D1693
THERMAL PROPERTIES (2)			
Vicat softening temperature			
Loading 1, Rate A	127	°C	ASTM D1525
Heat deflection temperature			
66 psi, Method A	70	°C	ASTM D648

(1) Typical values: not to be construed as specification limits.

(2) Based on compression molded specimens.

PROCESSING CONDITIONS

Recommended processing temperatures: 190 - 230°C

HEALTH AND SAFETY CONSIDERATIONS AND PRECAUTIONS

Detailed information is provided in the relevant Material Safety Datasheet and or Standard Food Declaration, Additional specific information can be requested via your local Sales Office.

STORAGE AND HANDLING

Polyethylene material should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably don't exceed 50°C. SABIC would not give warranty to bad storage conditions, which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

DISCLAIMER