





BM1052

High Density Polyethylene for Blow molding

Product Description

BM1052 grade is high molecular weight High Density Polyethylene copolymer with broad molecular weight distribution. It has excellent processability and exhibits very high impact strength, stiffness and superior environmental stress crack resistance.

Typical Applications

BM1052 resin is intended for blow molding of large containers such as closed head shipping containers, fuel tanks and containers for industrial use. It can also be extruded into sheets giving exceptionally high impact strength.

Typical data

Properties		Unit	Value (1)	Test Me	thod
Melt Flow Rate @ 190°C & 2.1 @ 190°C & 5 kg @ 190°C & 21. Density @ 23°	g load 6 kg load	g/10 min.	0.05 0.38 10 952	ASTM ASTM	D 1238
Mechanical Properties (2)					
1% Secant Modulus		MPa	1000	ASTM	D 638
Tensile Strength @ Yield		MPa	27	ASTM	D 638
Tensile Strength @ Break Tensile Elongation @ Break		MPa %	18 >500	ASTM ASTM	D 638 D 638
Flexural Strength Flexural Modulus		MPa MPa J/m	26 1050 300	ASTM ASTM ASTM	D 790 D 790 D 256
Izod Impact Hardness (Shore I ESCR (10% Igepal	,	- Hrs	63 >1200	ASTM ASTM ASTM	D 2240 D 1693B
ESCR (10% Igepal), F ₅₀ *		Hrs	720	ASTM	D 1693B
Thermal Properties					
Vicat Softening P Brittleness Tempe		°C °C	125 < -75	ASTM ASTM	D 1525 D 746

- (1) Typical values; not to be construed as specification limits.
- (2) Based on Compression molded sheet

Processing Conditions

Typical processing conditions for BM1052 are:

Barrel temperature: 200 - 250°C Melt temperature: 200 - 230°C

Food Regulation

BM1052 grade is not intended for Food contact application. Detailed information is provided in relevant Material Safety Datasheet and for additional specific information please contact SABIC local representative for certificate.

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.

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