

SABIC® HDPE BM1052JZ

HIGH DENSITY POLYETHYLENE

DESCRIPTION

BM1052JZ is a high molecular weight TNPP free High Density Polyethylene copolymer grade with broad molecular weight distribution. It has excellent process ability and exhibits very high impact strength, stiffness and superior environmental stress crack resistance.

TYPICAL APPLICATIONS

BM1052JZ is specially designed for standard jerry cans for packaging of dangerous goods, food /non-food products. This product is not intended for and must not be used in any pharmaceutical/medical applications.

TYPICAL PROPERTY VALUES

Revision 20260206

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES ⁽¹⁾			
Melt Flow Rate (MFR)			
@ 190°C & 21.6 kg	10	g/10 min	ASTM D1238
@ 190°C and 5 kg	0.38	g/10 min	ASTM D1238
Density			
@ 23°C	952	kg/m ³	ASTM D1505
MECHANICAL PROPERTIES ⁽²⁾			
1% Secant Modulus	1200	MPa	ASTM D638
Tensile strength			
@ Yield	28	MPa	ASTM D638
@ Break	14	MPa	ASTM D638
Tensile Elongation at Break	>500	%	ASTM D638
Flexural Strength	27	MPa	ASTM D790
Flexural Modulus	905	MPa	ASTM D790
Izod Impact Strength	270	J/m	ASTM D256
Hardness (Shore D)	58	-	ASTM D2240
ESCR (100% Igepal), F50 ⁽³⁾	>500	Hrs	ASTM D1693B
THERMAL PROPERTIES ⁽¹⁾			
Vicat Softening Point	127	°C	ASTM D1525
Brittleness Temperature	<-76	°C	ASTM D746

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

(2) Based on compression molded sheet

(3) Based on compression molded sheet

PROCESSING CONDITIONS

Recommended processing temperatures: 190 - 230°C

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CHEMISTRY THAT MATTERS™



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 do not 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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