

Braskem BS600 HDPE Blow Molding Polyethylene Copolymer

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Blow Molding Grade

Material Notes:

BS600 resin is a high-density polyethylene (HDPE), bimodal copolymer offering an outstanding combination of impact resistance and environmental stress crack resistance (ESCR). It is thus recommended for the production of containers, flasks, and bottles up to 30 liters for the transport of dangerous goods. Its other applications include bottles for agrochemicals and flasks for concentrated detergents and chemical products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-BS600-HDPE-Blow-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM-D792
ESCR 100% Igepal®	520 hour @Thickness 2.00 mm, Temperature 50.0 °C	520 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	198 hour @Thickness 2.00 mm, Temperature 50.0 °C	198 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	0.70 g/10 min @Load 5.00 kg, Temperature 190 °C	0.70 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM-D1238
	17 g/10 min @Load 21.6 kg, Temperature 190 °C	17 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	66	66	ASTM-D2240
Tensile Strength at Break	32.0 MPa	4640 psi	ASTM-D638
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM-D638
Flexural Modulus, 1% Secant	1030 MPa	149000 psi	ASTM-D790
Izod Impact, Notched	1.54 J/cm	2.89 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °F	ASTM-D648
	128 °C	262 °F	

Vicat Softening Point Thermal Properties	Metric @Load 1.02 kg	English @Load 2.25 lb	ASTM-D1525 Comments
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