

Braskem BS002HS HDPE Blow Molding Polyethylene Copolymer

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

Material Notes:

Resin BS002HS is a high-density polyethylene, bimodal copolymer. It presents good rigidity, good impact resistance, and good reproducibility of the weight of the bottles. It also has excellent environmental stress cracking resistance and excellent regularity and uniformity in processing. It is used in bottles for cleaning products, food products, surface-active agents, and cosmetics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-BS002HS-HDPE-Blow-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 lb/in ³	ASTM-D792
ESCR 100% Igepal®	220 hour	220 hour	0.3 mm notched-plaques; ASTM-D1693
	@Thickness 2.00 mm, Temperature 50.0 °C	@Thickness 0.0787 in, Temperature 122 °F	
ESCR 10% Igepal®	60 hour	60 hour	0.3 mm notched-plaques; ASTM-D1693
	@Thickness 2.00 mm, Temperature 50.0 °C	@Thickness 0.0787 in, Temperature 122 °F	
Melt Flow	0.35 g/10 min	0.35 g/10 min	ASTM-D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	24 g/10 min	24 g/10 min	ASTM-D1238
	@Load 21.6 kg, Temperature 190 °C	@Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM-D2240
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM-D638
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM-D638
Flexural Modulus, 1% Secant	1110 MPa	161000 psi	ASTM-D790
Izod Impact, Notched	2.57 J/cm	4.81 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
Vicat Softening Point	128 °C	262 °F	ASTM-D1525
	@Load 1.02 kg	@Load 2.25 lb	

Thermal Properties

Metric

English

Comments

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