

Braskem HB0454 HDPE Blow Molding Polyethylene Copolymer

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

Material Notes:

HB0454 is a high-density polyethylene copolymer resin with average molecular weight produced by the Unipol® process. A bottle made with HB0454 shows excellent processability, color, and superficial appearance, good chemical resistance, resistance to piling up, and does not have residual odor. Barbs can be detached easily since it has also been adjusted for use in high productivity rotating machines. Its applications include: small medicine bottles and bottles for cleaning products, cosmetics, food products, and tensioactive products.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-HB0454-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®	46 hour @Thickness 2.00 mm, Temperature 50.0 °C	46 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	23 hour @Thickness 2.00 mm, Temperature 50.0 °C	23 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	0.36 g/10 min @Load 2.16 kg, Temperature 190 °C	0.36 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238
	32 g/10 min @Load 21.6 kg, Temperature 190 °C	32 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ASTM-D2240
Tensile Strength at Break	31.0 MPa	4500 psi	ASTM-D638
Tensile Strength, Yield	29.0 MPa	4210 psi	ASTM-D638
Flexural Modulus, 1% Secant	1010 MPa	146000 psi	ASTM-D790
Izod Impact, Notched	1.09 J/cm	2.04 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ASTM-D648
	127 °C	261 °F	

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