

Braskem GF5250 HDPE Blow Molding Polyethylene Copolymer

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

Material Notes:

GF5250 is a high-density polyethylene copolymer with well balanced properties between impact and stiffness combined with high productivity and good processability. It was developed for the blow-molding segment. 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-GF5250-HDPE-Blow-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM-D792
ESCR 100% Igepal®	200 hour	200 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®	35 hour	35 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	0.38 g/10 min	0.38 g/10 min	ASTM-D1238
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	22 g/10 min	22 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	65	65	ASTM-D2240
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM-D638
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM-D638
Flexural Modulus, 1% Secant	980 MPa	142000 psi	ASTM-D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	ASTM-D648
Vicat Softening Point	125 °C	257 °F	ASTM-D1525
	@Load 1.02 kg	@Load 2.25 lb	

Thermal Properties

Metric

English

Comments

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