

Braskem GF4950 HDPE Blow Molding Polyethylene Copolymer

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

Material Notes:

HDPE GF4950 is a high-density polyethylene copolymer with well balanced properties between impact and stiffness combined with high environmental stress cracking resistance and processability. It was developed for the blow-molding segment. Its applications include: bottles for cleaning products, food products, surface-active agents, and cosmetics; and blends for irrigation pipes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GF4950-HDPE-Blow-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.956 g/cc	0.0345 lb/in ³	ASTM-D792
ESCR 100% Igepal®	70 hour @Thickness 2.00 mm, Temperature 50.0 °C	70 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	20 hour @Thickness 2.00 mm, Temperature 40.0 °C	20 hour @Thickness 0.0787 in, Temperature 104 °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
	28 g/10 min @Load 21.6 kg, Temperature 190 °C	28 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	30.0 MPa	4350 psi	ASTM-D638
Flexural Modulus, 1% Secant	1350 MPa	196000 psi	ASTM D790
Izod Impact, Notched	1.50 J/cm	2.81 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	ASTM-D648

Processing Properties	Metric	English	Comments
Feed Temperature	180 °C	356 °F	
Rear Barrel Temperature	190 °C	374 °F	

Processing Properties	185 °C Metric	365 °F English	Comments
Front Barrel Temperature	180 °C	356 °F	
Die Temperature	185 °C	365 °F	

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