

Braskem GF4950HS HDPE Blow Molding Polyethylene Copolymer

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

Material Notes:

GF4950HS resin is a high-density polyethylene (HDPE), bimodal copolymer offering a combination of good processability 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 applications include: bottles for agrochemicals; flasks for concentrated detergents and chemical products; reservoirs for wind-shield wipers; and air ducts.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GF4950HS-HDPE-Blow-Molding-Polyethylene-Copolymer.php

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in ³	ASTM-D792
ESCR 100% Igepal®	480 hour @Thickness 2.00 mm, Temperature 50.0 °C	480 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	150 hour @Thickness 2.00 mm, Temperature 50.0 °C	150 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	0.21 g/10 min @Load 2.16 kg, Temperature 190 °C	0.21 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238
	20 g/10 min @Load 21.6 kg, Temperature 190 °C	20 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	35.0 MPa	5080 psi	ASTM-D638
Flexural Modulus, 1% Secant	1100 MPa	160000 psi	ASTM-D790
Izod Impact, Notched	1.75 J/cm	3.28 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	ASTM-D648

Processing Properties	Metric	English	Comments
Feed Temperature	180 °C	356 °F	

Rear Barrel Temperature Processing Properties	190 °C Metric	374 °F English	Comments
Middle Barrel Temperature	185 °C	365 °F	
Front Barrel Temperature	180 °C	356 °F	
Die Temperature	185 °C	365 °F	

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