Braskem GD5160 HDPE Blow Molding Polyethylene Homopolymer

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

Material Notes:

GD5160 is a high-density polyethylene homopolymer with high density and stiffness combined with high impact resistance and productivity. It was developed for the blow-molding segment. It is used in containers for yogurt, water, alcohol, cosmetics, lubricant oils, and water reservoirs.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Braskem-GD5160-HDPE-Blow-Molding-Polyethylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in³	ASTM-D792
ESCR 100% Igepal®	20 hour @Thickness 2.00 mm, Temperature 50.0 °C	20 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
ESCR 10% Igepal®	16 hour @Thickness 2.00 mm, Temperature 50.0 °C	16 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	0.65 g/10 min @Load 2.16 kg, Temperature 190 °C	0.65 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238
	40 g/10 min @Load 21.6 kg, Temperature 190 °C	40 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	ASTM-D2240
Tensile Strength at Break	36.0 MPa	5220 psi	ASTM-D638
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM-D638
Flexural Modulus, 1% Secant	1260 MPa	183000 psi	ASTM-D790
Izod Impact, Notched	1.20 J/cm	2.25 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	79.0 °C	174 °F	ASTM-D648
Vicat Softening Point	128 °C @Load 1.02 kg	262 °F @Load 2.25 lb	ASTM-D1525

Thermal Properties	Metric	English	Comments

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