

Braskem GM8250 HDPE Blow Molding Polyethylene

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

Material Notes:

GM8250 is a high-density polyethylene that has high molecular weight, excellent tenacity, high stiffness, good impact resistance, and good environmental stress cracking resistance. It was developed for the blow molding segment of great volumes. Its applications include: gallons and drums for chemical and agrochemicals products and extrusion of sheets for truck bed protectors.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GM8250-HDPE-Blow-Molding-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	ASTM-D792
ESCR 100% Igepal®	530 hour	530 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®	45 hour	45 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	0.27 g/10 min	0.27 g/10 min	ASTM-D1238
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	
	7.3 g/10 min	7.3 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	62	62	ASTM-D2240
Tensile Strength at Break	37.0 MPa	5370 psi	ASTM-D638
Tensile Strength, Yield	27.0 MPa	3920 psi	ASTM-D638
Flexural Modulus, 1% Secant	990 MPa	144000 psi	ASTM-D790
Izod Impact, Notched	3.20 J/cm	5.99 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	128 °C	262 °F	ASTM-D1525
	@Load 1.02 kg	@Load 2.25 lb	

Thermal Properties

Metric

English

Comments

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