

Braskem GP1000R HDPE High Density Extrusion Polyethylene

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

Material Notes:

GP1000R is a high-density polyethylene compound specially developed for the manufacturing of extruded pipes for gas distribution. It is produced with bimodal technology and has high molar mass. It shows excellent mechanical properties and has excellent resistance to hydrostatic pressure and to stress cracking. This resin has the MRS (Minimum Required Strength) of 10 MPa, according to ISO 9080, and is classified as PE 100 according to ISO 12162. GP1000R is manufactured in an orange color and contains additives to protect it against ultraviolet radiation action and photodegradation. Its applications include orange PE 100 pressure pipes for gas distribution and jacketing of underwater cables.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GP1000R-HDPE-High-Density-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	ASTM-D792
ESCR 100% Igepal®	>= 1000 hour @Thickness 2.00 mm, Temperature 50.0 °C	>= 1000 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	0.22 g/10 min @Load 5.00 kg, Temperature 190 °C	0.22 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	ASTM-D2240
Tensile Strength at Break	36.0 MPa	5220 psi	ASTM-D638
Tensile Strength, Yield	24.0 MPa	3480 psi	ASTM-D638
Elongation at Break	770 %	770 %	ASTM-D638
Elongation at Yield	8.1 %	8.1 %	ASTM-D638
Flexural Modulus, 1% Secant	1240 MPa	180000 psi	ASTM-D790
Izod Impact, Notched	3.50 J/cm	6.56 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	72.0 °C	162 °F	ASTM-D648
Vicat Softening Point	126 °C @Load 1.02 kg	259 °F @Load 2.25 lb	ASTM-D1525

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China