

Braskem GM7040G HDPE High Density Extrusion Polyethylene

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

Material Notes:

GM7040G is a high-density polyethylene compound specially developed for the manufacturing of extruded pipes for a gas pressurized line. It is produced with bimodal technology and has high molar mass. It shows high mechanical properties and has excellent resistance to hydrostatic pressure and to stress cracking. The resin has the MRS (Minimum Required Strength) of 8 MPa according to ISO 9080 and is classified as PE 80 according to ISO 12162. GM7040G is manufactured in a yellow color and contains additives to protect it against ultraviolet radiation action and photodegradation. Its applications include yellow PE 80 pressure pipes for gas distribution and jacketing of underwater cables.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GM7040G-HDPE-High-Density-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.947 g/cc	0.0342 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	0.45 g/10 min @Load 5.00 kg, Temperature 190 °C	0.45 g/10 min @Load 11.0 lb, Temperature 374 °F	ASTM-D1238

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	23.0 MPa	3340 psi	ASTM-D638
Elongation at Break	770 %	770 %	ASTM-D638
Elongation at Yield	9.2 %	9.2 %	ASTM-D638
Flexural Modulus, 1% Secant	1080 MPa	157000 psi	ASTM-D790
Izod Impact, Notched	2.40 J/cm	4.50 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	68.0 °C	154 °F	ASTM-D648
Vicat Softening Point	122 °C @Load 1.02 kg	252 °F @Load 2.25 lb	ASTM-D1525

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