

Braskem GM5240PR HDPE High Density Extrusion Polyethylene

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

Material Notes:

GM5240PR is a high-density polyethylene compound specially developed for the manufacturing of pipes, underground conduits, and steel pipe coating. This resin is produced with bimodal technology and shows excellent mechanical properties and resistance to stress cracking. GM5240PR contains carbon black pigment that protects it against ultraviolet radiation action and photodegradation. Its applications include: triple-layer coating for metallic pipes, localized irrigation pipes, and ducts for mining.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GM5240PR-HDPE-High-Density-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.957 g/cc	0.0346 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	0.55 g/10 min @Load 2.16 kg, Temperature 190 °C	0.55 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM-D2240
Tensile Strength at Break	28.0 MPa	4060 psi	ASTM-D638
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM-D638
Elongation at Break	840 %	840 %	ASTM-D638
Elongation at Yield	9.9 %	9.9 %	ASTM-D638
Flexural Modulus, 1% Secant	980 MPa	142000 psi	ASTM-D790
Izod Impact, Notched	0.850 J/cm	1.59 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	121 °C @Load 1.02 kg	250 °F @Load 2.25 lb	ASTM-D1525

Component Elements Properties	Metric	English	Comments
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Component Elements Properties	Metric	English	Comments
Metric: ASTM-D1603			
Descriptive Properties	Value		Comments
UV Absorption Coefficient (Abs/cm)	> 3000		ASTM-D3349

Contact Songhan Plastic Technology Co.,Ltd.

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