

Braskem GP5550BK HDPE High Density Extrusion Polyethylene

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

Material Notes:

GP5550BK is a high-density polyethylene with high molar mass. It is produced with bimodal technology and shows excellent mechanical properties and high resistance to stress cracking. GP5550BK contains carbon black pigment that protects it against ultraviolet radiation action and photodegradation. Its applications include: straight pipes for mining, subducts for energy and telecom, jacketing of optic fibers and metallic cables, geomembranes, and blends for irrigation pipes.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GP5550BK-HDPE-High-Density-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.960 g/cc	0.0347 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	0.30 g/10 min @Load 5.00 kg, Temperature 190 °C	0.30 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	38.0 MPa	5510 psi	ASTM-D638
Tensile Strength, Yield	23.0 MPa	3340 psi	ASTM-D638
Elongation at Break	780 %	780 %	ASTM-D882
Elongation at Yield	8.4 %	8.4 %	ASTM-D882
Flexural Modulus, 1% Secant	1200 MPa	174000 psi	ASTM-D790
Izod Impact, Notched	3.00 J/cm	5.62 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	71.0 °C	160 °F	ASTM-D648
Vicat Softening Point	125 °C @Load 1.02 kg	257 °F @Load 2.25 lb	ASTM-D1525

Component Elements Properties	Metric	English	Comments
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Contact Songhan Plastic Technology Co.,Ltd.

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