

Braskem GD5150K HDPE High Density Extrusion Polyethylene

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

Material Notes:

GD5150K is a high-density polyethylene specially developed for the manufacturing of insulation for wires and cables demanding high extrusion velocity. It has medium molar mass, shows good dielectric properties, and contains special additives to prevent catalytic oxidation of copper. Its applications include insulation for wires and cables and multiplex cables.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Braskem-GD5150K-HDPE-High-Density-Extrusion-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in ³	ASTM-D792
ESCR 100% Igepal®	139 hour @Thickness 2.00 mm, Temperature 50.0 °C	139 hour @Thickness 0.0787 in, Temperature 122 °F	0.3 mm notched-plaques; ASTM-D1693
Melt Flow	0.83 g/10 min @Load 2.16 kg, Temperature 190 °C	0.83 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM-D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	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	980 %	980 %	ASTM-D638
Elongation at Yield	11 %	11 %	ASTM-D638
Flexural Modulus, 1% Secant	950 MPa	138000 psi	ASTM-D790
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	69.0 °C	156 °F	ASTM-D648
Vicat Softening Point	121 °C @Load 1.02 kg	250 °F @Load 2.25 lb	ASTM-D1525

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	ASTM D527

Electrical Properties	Metric	English	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
Dielectric Strength	40.0 kV/mm	1020 kV/in	ASTM D149
Dissipation Factor	0.00060 @Frequency 1000 Hz	0.00060 @Frequency 1000 Hz	ASTM D150

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