Borealis Borstar® HE6067 Black Bimodal HD Polyethylene Compound for Jacketing of Communication and Power Cables

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

Material Notes:

Borstar HE6067 is a black, bimodal, co-polymer high density polyethylene (HDPE) compound produced according to the bimodal Borstar process. It is characterized by its balanced properties important in jacketing applications. For example, very low shrink-back, excellent stress-crack resistance and a wide processing window. HE6067 can resist severe laying condition even at elevated temperature. Processing conditions however, must be optimized for best surface conditions whenever jacketing large diameter cables. Borstar HE6067 is especially well suited for fiber optic applications due to its very low shrinkage back characteristics as well as power cable jacketing.Information provided by the Manufacturer.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Borealis-Borstar-HE6067-Black-Bimodal-HD-Polyethylene-Compound-for-Jacketing-of-Communication-and-Power-Cables.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in³	Base; ASTM D792
	0.954 g/cc	0.0345 lb/in³	Compound; ASTM D792
ESCR 10% Igepal®	>= 2000 hour @Temperature 50.0 °C	>= 2000 hour @Temperature 122 °F	ASTM D1693/B
Melt Flow	1.7 g/10 min	1.7 g/10 min	ASTM D1238/E

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D638
Tensile Strength, Yield	13.8 MPa	2000 psi	ASTM D638
Elongation at Break	700 %	700 %	ASTM D638
Flexural Modulus	0.850 GPa	123 ksi	ASTM D790/1

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.0 °C	<= -105 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Strength	>= 19.7 kV/mm	>= 500 kV/in	At 50 mils; ASTM D149

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	>= 210 °C	>= 410 °F	
Front Barrel Temperature	>= 160 °C	>= 320 °F	
Head Temperature	>= 210 °C	>= 410 °F	

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