

Borealis Borstar® HE6081 Black Track Resistant HD Polyethylene Based Compound for Jacketing of Fiber Optical Cable

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

Material Notes:

Borstar HE6081 is based on high-density polyethylene and has a specially designed additive package to give excellent track resistance. It is also well protected against UV degradation in order to ensure outstanding weathering applications. Borstar HE6081 is developed for jacketing of Fiber Optical cables designed for installation in high voltage power transmission lines. The compound may also be used for other applications where thermoplastic track resistance materials can be applied. It can resist severe installation conditions and service conditions even at elevated ambient temperatures. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-HE6081-Black-Track-Resistant-HD-Polyethylene-Based-Compound-for-Jacketing-of-Fiber-Optical-Cable.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ASTM D1505
ESCR 10% Igepal®	>= 2000 hour	>= 2000 hour	ASTM D1693
Melt Flow	0.40 g/10 min	0.40 g/10 min	ASTM D1238
	@Load 2.16 kg	@Load 4.76 lb	
	2.0 g/10 min	2.0 g/10 min	ASTM D1238
	@Load 5.00 kg	@Load 11.0 lb	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	ASTM D2240
Tensile Strength at Break	25.0 MPa	3630 psi	ASTM D638
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	25.0 MPa	3630 psi	ASTM D638
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Strength, Ultimate	11.0 MPa	1600 psi	ASTM D638
	@Temperature 70.0 °C	@Temperature 158 °F	
Tensile Strength, Yield	6.89 MPa	1000 psi	ASTM D638
	@Temperature 70.0 °C	@Temperature 158 °F	
	25.0 MPa	3630 psi	ASTM D638
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	30.0 MPa	4350 psi	

Mechanical Properties	Metric	English	ASTM D638 Comments
Elongation at Break	200 %	200 %	ASTM D638
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	400 %	400 %	ASTM D638
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	500 %	500 %	ASTM D638
	@Temperature 70.0 °C	@Temperature 158 °F	
Elongation at Yield	4.0 %	4.0 %	ASTM D638
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	4.0 %	4.0 %	ASTM D638
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.0 %	9.0 %	ASTM D638
	@Temperature 70.0 °C	@Temperature 158 °F	

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.5	2.5	ASTM D150
	@Frequency 50 Hz	@Frequency 50 Hz	
Dielectric Strength	>= 19.7 kV/mm	>= 500 kV/in	ASTM D149
Dissipation Factor	0.00020	0.00020	ASTM D150
	@Frequency 50 Hz	@Frequency 50 Hz	

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