

Borealis Borstar® ME6053 Black Bimodal MD Polyethylene Compound for Jacketing of Communication and Power Cables

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Extruded

Material Notes:

Borstar ME6053 is a natural, bimodal medium-density polyethylene compound produced using the Borstar process. It is characterized by its tailor made properties important in jacketing applications, i.e. very low shrink back, excellent stress crack resistance and wide processing window. Borstar contains a well dispersed UV-stabilizer in sufficient amount to ensure excellent weathering resistance, corresponding to a minimum 15 years exposure in continental European climate. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-ME6053-Black-Bimodal-MD-Polyethylene-Compound-for-Jacketing-of-Communication-and-Power-Cables.php

Physical Properties	Metric	English	Comments
Density	0.936 g/cc	0.0338 lb/in ³	Base Resin; ASTM D792
ESCR 10% Igepal®	>= 2000 hour	>= 2000 hour	ASTM D1693/B
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	ASTM D2240
Tensile Strength, Yield	>= 24.8 MPa	>= 3600 psi	ASTM D638
Elongation at Break	>= 700 %	>= 700 %	ASTM D638
Flexural Modulus	0.600 GPa	87.0 ksi	ASTM D790

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	>= 39.4 kV/mm	>= 1000 kV/in	At 20 mils; ASTM D149

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