

Borealis Borstar® ME3440 Black Medium Density Polyethylene for Pressure Pipes

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

Material Notes:

Borstar ME3440 is a black, bimodal medium density polyethylene compound classified as a MRS 8.0 material (PE80), with optimum balance between flexibility and strength, produced with the advanced Borstar technology. Well dispersed carbon black gives outstanding UV resistance. Long-term stability is ensured by an optimized stabilization system. Borstar ME3440 is recommended for pressure pipe systems in the application fields of drinking water, natural gas, pressure sewerage, relining, sea outfall and industrial, particularly where flexibility and coilability is of importance. It also shows excellent resistance to rapid crack propagation and slow crack growth. Thanks to the structure, it gives outstanding extrudability, compared to conventional PE80 products. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borstar-ME3440-Black-Medium-Density-Polyethylene-for-Pressure-Pipes.php

Physical Properties	Metric	English	Comments
Density	0.940 g/cc	0.0340 lb/in ³	Base Resin; ISO 1183
	0.951 g/cc	0.0344 lb/in ³	Compound; ISO 1183
ESCR 10% Igepal®	>= 5000 hour	>= 5000 hour	ASTM D1693-A
Carbon Black Loading	>= 2.0 %	>= 2.0 %	ASTM D1603
Melt Flow	0.20 g/10 min @Load 2.16 kg, Temperature 190 °C	0.20 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	0.85 g/10 min @Load 5.00 kg, Temperature 190 °C	0.85 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	19.00 MPa	2755 psi	At 50 mm/min; ISO 527-2
Elongation at Break	600 %	600 %	ISO 527-2
Elongation at Yield	10 %	10 %	ISO 527-2
Tensile Modulus	0.800 GPa	116 ksi	At 1 mm/min; ISO 527-2
Charpy Impact, Notched	0.200 J/cm ²	0.952 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Processing Properties	Metric	English	Comments
Front Barrel Temperature	180 - 210 °C	356 - 410 °F	
Die Temperature	200 - 210 °C	392 - 410 °F	
Melt Temperature	200 - 220 °C	392 - 428 °F	
Head Temperature	200 - 210 °C	392 - 410 °F	

Descriptive Properties	Value	Comments
Resistance to Rapid Crack Propagation, BAR	7	ISO 13477, Pc at 0°C, S4 / pipe size 250 mm SDR 11

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