

Borealis Borcoat™ HE3453 Natural High Density Polyethylene for Steel Pipe Coating

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Borcoat HE3453 is a natural and colorable high density polyethylene produced with the Borstar technology in similar conditions as the black ready made top coat Borcoat HE3450. Borcoat HE3453 is recommended as colorable HDPE top-coat for yellow and blue coating system. Borcoat HE3453 can be used up to 80°C service temperature of the pipeline when combined with grafted adhesives either Borcoat ME0420 or Borcoat ME0433. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcoat-HE3453-Natural-High-Density-Polyethylene-for-Steel-Pipe-Coating.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	Base Resin; ISO 1183/ISO 1872-2B
ESCR 10% Igepal®	>= 5000 hour	>= 5000 hour	IEC 811-4-1/B, ASTM D1693-A
Melt Flow	0.50 g/10 min	0.50 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	2.0 g/10 min	2.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 190 °C	@Load 11.0 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength, Ultimate	>= 26.0 MPa	>= 3770 psi	ASTM D638
Elongation at Break	>= 600 %	>= 600 %	ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	>= 128 °C	>= 262 °F	ISO 3146
Vicat Softening Point	120 °C	248 °F	A50 (10 N); ISO 306
Brittleness Temperature	<= -82.0 °C	<= -116 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D258
Dielectric Strength	>= 30.0 kV/mm	>= 762 kV/in	IEC 244

Processing Properties	Metric	English	Comments
Front Barrel Temperature	190 - 210 °C	374 - 410 °F	
Die Temperature	190 - 210 °C	374 - 410 °F	
Melt Temperature	220 - 240 °C	428 - 464 °F	
Head Temperature	190 - 210 °C	374 - 410 °F	

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