

## Borealis Borcoat™ HE3450 Black High Density Polyethylene Top Coat for Steel Pipe Coating

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

### Material Notes:

Borcoat HE3450 is a black, high-density polyethylene (HDPE) produced with the advanced Borstar technology, providing the material with especially well melt strength and extrudability. Also its mechanical and heat deformation properties as well as ESCR resistance are very good. It contains very well dispersed; fine particle sized carbon black in order to ensure excellent weathering resistance. Borcoat HE3450 is recommended as top-coat in steel pipe coating and is suitable for severe laying conditions even at low and elevated temperatures. With this material, high running speeds and relatively thin layers are obtained. Borcoat HE3450 can be used up to 85°C service temperature of the pipeline with combined with the grafted adhesives Borcoat ME0420 or Borcoat ME0433. Information provided by the Manufacturer.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Borealis-Borcoat-HE3450-Black-High-Density-Polyethylene-Top-Coat-for-Steel-Pipe-Coating.php](http://www.lookpolymers.com/polymer_Borealis-Borcoat-HE3450-Black-High-Density-Polyethylene-Top-Coat-for-Steel-Pipe-Coating.php)

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in <sup>3</sup>	Base Resin; ISO 1183/ISO 1872-2B
	0.952 g/cc	0.0344 lb/in <sup>3</sup>	Compound; ISO 1183/ISO 1872-2B
ESCR 10% Igepal®	>= 5000 hour	>= 5000 hour	IEC 811-4-1/B, ASTM D1693-A
Carbon Black Loading	>= 2.0 %	>= 2.0 %	ASTM D1603
Melt Flow	0.50 g/10 min @Load 2.16 kg, Temperature 190 °C	0.50 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133
	2.0 g/10 min @Load 5.00 kg, Temperature 190 °C	2.0 g/10 min @Load 11.0 lb, Temperature 374 °F	ISO 1133

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 D257
Dielectric Strength	>= 30.0 kV/mm	>= 762 kV/in	IEC 243

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	

## Contact Songhan Plastic Technology Co.,Ltd.

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