

Borealis Borcoat™ ME0420 Grafted Polyethylene Adhesive for Steel Pipe Coating

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

Material Notes:

Borcoat ME0420 is a maleic-anhydride grafted polyethylene polymer to be extruded on conventional LDPE extruders with flat die or crosshead and it has excellent adhesion to epoxy powder and the top coat Borcoat HE3450. Borcoat ME0420 is primarily designed to be used as the tie layer between epoxy layer and the top coat polyethylene in 3-layer coated steel pipes. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcoat-ME0420-Grafted-Polyethylene-Adhesive-for-Steel-Pipe-Coating.php

Physical Properties	Metric	English	Comments
Density	0.934 g/cc	0.0337 lb/in³	ISO 1183/ISO 1872-2B
Melt Flow	1.3 g/10 min	1.3 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47	47	ISO 868
Tensile Strength, Yield	18.0 MPa	2610 psi	At 50 mm/min; ISO 527-2
Elongation at Break	>= 700 %	>= 700 %	ISO 527-3
Peel Strength	>= 4.00 kN/m	>= 22.8 pli	3-layer at 80°C; DIN 30678
	>= 20.0 kN/m	>= 114 pli	3-layer; DIN 30678

Thermal Properties	Metric	English	Comments
Melting Point	122 °C	252 °F	ISO 3146
Vicat Softening Point	100 °C	212 °F	A50 (10 N); ISO 306
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

Processing Properties	Metric	English	Comments
Front Barrel Temperature	200 - 230 °C	392 - 446 °F	
Die Temperature	230 - 240 °C	446 - 464 °F	
Melt Temperature	210 - 230 °C	410 - 446 °F	
Head Temperature			

Processing Properties	230 - 240 °C Metric	446 - 454 °F English	Comments
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