

Borealis Borcoat™ BB125E Polypropylene Adhesive for Steel Pipe Coating

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Borcoat BB125E is a chemically modified polypropylene copolymer designed to be used as the tie layer between the epoxy corrosion protection layer and the top-coat polypropylene Borcoat BB108E-1199. Borcoat BB125E can be extruded on conventional LDPE extruders with flat die or crosshead. It has excellent adhesion to fusion bonded epoxy and polypropylene. Furthermore, it has superior thermal properties and can be used at operating temperatures within the range of -20°C + 110°C. Information provided by the Manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Borealis-Borcoat-BB125E-Polypropylene-Adhesive-for-Steel-Pipe-Coating.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ISO 1183
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	ISO 868
Tensile Strength, Yield	18.0 MPa	2610 psi	At 50 mm/min; ISO 527-2
Elongation at Yield	10 %	10 %	At 50 mm/min; ISO 527-2
Tensile Modulus	0.800 GPa	116 ksi	At 1 mm/min; ISO 527-2
Izod Impact, Notched (ISO)	59.0 kJ/m ²	28.1 ft-lb/in ²	ISO 108/1A
	10.0 kJ/m ² @Temperature -20.0 °C	4.76 ft-lb/in ² @Temperature -4.00 °F	ISO 108/1A
Peel Strength	4.00 kN/m	22.8 pli	3 layer at 110°C; DIN 30678
	>= 20.0 kN/m	>= 114 pli	3-layer; DIN 30678

Thermal Properties	Metric	English	Comments
Vicat Softening Point	130 °C	266 °F	A50 (10 N); ISO 306

Processing Properties	Metric	English	Comments
Front Barrel Temperature	235 - 245 °C	455 - 473 °F	
Die Temperature	235 - 245 °C	455 - 473 °F	

Head Temperature Processing Properties	235 - 245 °C Metric	455 - 473 °F English	Comments
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