Polypropylene

Borcoat™ BB108E-1199

Polypropylene block copolymer for Steel Pipe Coating

Description

Borcoat BB108E-1199 is a polypropylene compound

The product is coloured white.

The product is supplied as pellets for melt extrusion and as a powder for application by spray or other special means.

Applications

Borcoat BB108E-1199 is recommended as a top coat or as an anti-slip "rough coat" for multilayer PP systems used in

Steel Pipe Coating

Specifications

Borcoat BB108E-1199 is intended to fulfill following National and International standards, when appropriate industrial manufacturing standard procedures are applied and a continuous quality system is implemented and when used in combination with BB127E and a compatible powder epoxy.

DIN 30678
Shell DEP 31.30.40.31
Draft ISO 21809-1
NF A49711

Special features

Borcoat BB108E-1199 The maximum operating temperature for normal ground installations is 110°C for onshore and can be used in specially designed systems like offshore coatings up to 140°C depending on surrounding conditions. When applied in the correct manner, the powder version provides a rough surface for the purpose of stopping concrete weight coating from slipping during the lay process.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density (Base Resin)	900 kg/m3	ISO 1183
Density (Compound)	920 kg/m3	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	0,9 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.200 MPa	ISO 178
Tensile Strain at Yield (50 mm/min)	8 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	25 MPa	ISO 527-2
Vicat softening temperature (10 N)	145 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	25 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	3 kJ/m²	ISO 179/1eA
Hardness, Shore D	62	ISO 868

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Processing Techniques

Pellets can be applied by flat die or crosshead extrusion. The actual conditions will depend on the type of equipment used.

Extrusion

Cylinder	200 - 220 °C
Head	210 - 220 °C
Die	210 - 220 °C
Melt temperature	220 - 240 °C

Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borealis representative for such particulars. Please ask Borealis representatives for more specific information on the application of the powder version.

Storage

Borcoat BB108E-1199 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety

The product is not classified as a dangerous preparation.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

Related Documents

The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the products.

Recovery and disposal of polyolefins
Information on emissions from processing and fires
"Safety data sheet" / "Product safety information sheet"

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