



Polypropylene Borcoat™ BB122E-LT

Grafted Polypropylene adhesive for Steel Pipe Coating

Description

Borcoat BB122E-LT is a maleic anhydride grafted polypropylene adhesive.

It has excellent low temperature impact resistance.

The product is supplied in pellet form

Applications

Borcoat BB122E-LT is recommended as an adhesive for multi-layer PP systems used in

Steel Pipe Coating

Specifications

Borcoat BB122E-LT is intended to fulfill following National and International standards, when appropriate industrial manufacturing standard procedures are applied, a continuous quality system is implemented and when used in combination with compatible epoxy powders.

EN ISO 21809-1
DIN 30678

NF A49-711
Gazprom 2-2.2-178-2007

Special features

Borcoat BB122E-LT can be used as an adhesive for PP three layer systems and the product is intended for design temperatures between -20°C and +110°C and tailored for low temperature applications. For multilayer thermal insulation systems the design temperature can go up to 130 °C.

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	900 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	7 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	900 MPa	ISO 527-2
Tensile Strain at Break (50 mm/min) (23 °C)	> 400 %	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	18 MPa	ISO 527-2
Tensile Stress at Break (50 mm/min) (23 °C)	18 MPa	ISO 527-2
Vicat softening temperature A50,	> 130 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	40 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	5 kJ/m ²	ISO 179/1eA
Moisture	< 0,05 %	Karl Fischer-titration
Peel strength (3 layer) (23 °C)	> 250 N/cm	EN ISO 21809-1 (Annex C)
Peel strength (3 layer) (80 °C)	> 100 N/cm	EN ISO 21809-1 (Annex C)
Peel strength (3 layer) (110 °C)	> 40 N/cm	EN ISO 21809-1 (Annex C)

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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

Head	200 - 220 °C
Die	200 - 220 °C
Melt temperature	190 - 220 °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.

Storage

Borcoat BB122E-LT 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 dangerous.

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.

Related Documents

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

Recovery and disposal of polyolefins

Information on emissions from processing and fires

"Safety data sheet" / "Product safety information sheet"

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Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

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