



# Polypropylene Borcoat™ EB133E-1199-LT

Polypropylene compound for Steel Pipe Coating

## Description

**Borcoat EB133E-1199-LT** is an elastomer modified compound, based on polypropylene copolymer.

It has excellent low temperature impact resistance.

The product is coloured white. This product is thermal, as well as UV-stabilized.

The product is supplied in pellet form

## Applications

**Borcoat EB133E-1199-LT** is recommended as a top coat for multilayer PP systems and thermal insulation used in:

Steel Pipe Coating

## Specifications

**Borcoat EB133E-1199-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

Due to the nature of the modified PP material, indentation resistance of the applied coating could be borderline versus some requirements of common standards and due to known variations in testing, those specified values should be separately agreed upon between the applicator and the client (end user/purchaser).

## Special features

**Borcoat EB133E-1199-LT** is intended for design temperatures between -20°C and +110°C and tailored for low temperature handling, transportation and installation.

## Physical Properties

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density (Compound)	915 kg/m <sup>3</sup>	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	1,0 g/10min	ISO 1133
Tensile Modulus (1 mm/min)	1.000 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	13 %	ISO 527-2
Tensile Strain at Break (50 mm/min)	> 400 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	22 MPa	ISO 527-2
Tensile Stress at Break (50 mm/min)	> 20 MPa	ISO 527-2
Oxidation Induction Time (220 °C),	> 30 min	ISO 11357

Borcoat is a trademark of Borealis group.

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Vicat softening temperature A50,	> 135 °C	ISO 306
Environmental Stress Crack Resistance (Igepal 10 %), (F50)	> 3.000 h	ASTM D 1693-A
Charpy Impact Strength, notched (23 °C)	60 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	5 kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	4 kJ/m <sup>2</sup>	ISO 179/1eA
Hardness, Shore D ( 3 s)	60	ISO 868
Moisture	< 0,05 %	Karl Fischer-titration

### 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	200 - 240 °C
Melt temperature	200 - 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.

### Storage

**Borcoat EB133E-1199-LT** should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation.

### 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.**

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