



# Polypropylene Borcoat™ BB127E

Grafted Polypropylene adhesive for Steel Pipe Coating

## Description

**Borcoat BB127E** is a maleic anhydride grafted polypropylene adhesive.

The product is supplied as pellets for melt extrusion.

The product is non-pigmented.

## Applications

**Borcoat BB127E** is recommended as an adhesive for multi-layer PP systems used in Steel Pipe Coating

## Specifications

**Borcoat BB127E** is intended to fulfil 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 BB108E-1199 and a compatible Fusion Bonded Epoxy (FBE) powder.

EN ISO 21809-1  
DIN 30678

NF A49-711  
ABNT NBR 15221-2

## Special Features

**Borcoat BB127E** The product is intended to be used as an adhesive for PP three layer or multi-layer thermal insulation systems at design temperatures up to 110°C for onshore and 140°C for offshore applications.

## Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	900 kg/m <sup>3</sup>	ISO 1183-1, Method A
Melt Flow Rate (230 °C/2,16 kg)	7,5 g/10min	ISO 1133-1, Method B
Tensile Strain at Break (50 mm/min) (23 °C)	>= 400 %	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	20 MPa	ISO 527-2
Melting temperature (DSC)	165 °C	ISO 11357-3
Vicat softening temperature A50 (10 N)	145 °C	ISO 306
Charpy Impact Strength, notched (-20 °C)	4 kJ/m <sup>2</sup>	ISO 179/1eA
Moisture <sup>1</sup>	< 300 ppm	ISO 15512
Peel strength (3 layer) (23 °C)	> 250 N/cm	ISO 21809-1
Peel strength (3 layer) (80 °C)	> 100 N/cm	ISO 21809-1
Peel strength (3 layer) (110 °C)	> 60 N/cm	ISO 21809-1
Peel strength (3 layer) (140 °C)	> 30 N/cm	ISO 21809-1

<sup>1</sup> Karl Fischer-titration

Borcoat is a trademark of the Borealis group.

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## Processing Techniques

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

### Extrusion

Head	210 - 240 °C
Die	210 - 240 °C
PP outer layer Melt temperature	< 250 °C
Steel pipe temperature	180 - 210 °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.

## Packaging

Package: Pellets 25 kg Bags on 1375 kg pallet

## Storage

**Borcoat BB127E** shall be stored indoors below 50°C in unopened original packaging in clean and dry environment. It is recommended to ensure proper stock rotation by using first in – first out principle. Following afore-mentioned conditions the material can be stored for a period of up to 36 months after production. However, caution shall be taken regarding the moisture level. It is recommended to measure the moisture after longer storage periods prior to processing.

## Safety

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.

## 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

For general and grade specific compliance documents please see Borealis' homepage [www.borealisgroup.com](http://www.borealisgroup.com) or ask your Borealis representative.



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**Borcoat BB127E**

**Issuer:**

Product Management / Albin Mariacher  
Marketing Oil & Gas / Thomas Stark

**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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