

PRODUCT DATA SHEET

23.06.2016 Ed.7



Polypropylene

Borcoat™ EA165E

Polypropylene compound for Steel Pipe Coating

Description

Borcoat EA165E is an elastomer modified compound, based on a high molecular weight copolymer. The elastomer modification gives excellent low temperature impact resistance.

The product can be self coloured.

Applications

Borcoat EA165E is used for injection moulded field joints, moulded articles and impact resistant external coatings.

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density (Compound) ¹	900 kg/m ³	ISO 1183-1, Method A
Melt Flow Rate (230 °C/2,16 kg)	0,3 g/10min	ISO 1133
Tensile Modulus (2 mm/min)	900 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min) (23 °C)	16 %	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)	22 MPa	ISO 527-2
Melting temperature	164 °C	ISO 11357-3
Oxidation Induction Time (220 °C),	>= 40 min	ISO 11357-6
Vicat softening temperature A50, (10 N)	133 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	70 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (0 °C)	60 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	30 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	8 kJ/m ²	ISO 179/1eA
Hardness, Shore D (1 s)	60	ISO 868
Moisture ²	< 500 ppm	ISO 15512

¹ Compound

² Karl Fischer-titration

Processing Techniques

The actual conditions will depend on the type of equipment used.

Extrusion

Cylinder	210 - 230 °C
Head	230 - 240 °C
Die	230 - 240 °C
Melt temperature	230 - 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.

Borcoat EA165E can be applied by injection moulding.

Borcoat is a trademark of the Borealis group.

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Packaging

Package: Pellets 25 kg Bags on 1375 kg pallet
Bulk
Octabin 1 - 1.2 t

Storage

Borcoat EA165E 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 safely be stored for a period of up to 3 years 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

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.

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.

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Borcoat EA165E**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.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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