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Polyethylene Borcoat™ ME0420

Grafted Polyethylene adhesive for Steel Pipe Coating

Description

Borcoat ME0420 is a maleic grafted polyethylene

The product is supplied in pellet form

Applications

Borcoat ME0420 is recommended as an adhesive for a three layer PE system used in:

Steel Pipe Coating

Specifications

Borcoat ME0420 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 HE3450 or HE3453 and a compatible powder epoxy.

NFA 49710
DIN 30670S

CAN/CSA-Z245.21
Draft ISO 21809-1

Physical Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Density	934 kg/m ³	ISO 1872-2/ISO 1183
Melt Flow Rate (190 °C/2,16 kg)	1,3 g/10min	ISO 1133
Tensile Strain at Break (50 mm/min)	> 700 %	ISO 527-2
Tensile Stress at Break (50 mm/min)	> 18 MPa	ISO 527-2
Melting temperature (DSC)	122 °C	ISO 3146
Vicat softening temperature A50, (10 N)	100 °C	ISO 306
Brittleness temperature	< -80 °C	ASTM D 746
Hardness, Shore D	47	ISO 868
Peel strength (3 layer) (23 °C)	> 200 Ncm	DIN 30670
Peel strength (3 layer) (80 °C)	> 40 Ncm	DIN 30670

Processing Techniques

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

Extrusion

Borcoat ME0420 can be applied by flat die or crosshead extrusion. The actual extrusion conditions will depend on the type of equipment used.

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Cylinder	200 - 230 °C
Head	230 - 240 °C
Die	230 - 240 °C
Melt temperature	210 - 230 °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.

Storage

Borcoat ME0420 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 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 migration
Safety Data 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.

No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.