Polypropylene

Borcoat™ BB108E-1199

Polypropylene compound for Steel Pipe Coating

Description

Borcoat BB108E-1199 is a polypropylene compound The product is coloured white. It includes a combination of stabilisers to ensure long-term thermal stability.

The product supplied as pellets for processing via extrusion.

Applications

Borcoat BB108E-1199 is recommended as a top coat for multilayer PP systems used in:

Steel Pipe Coating

Specifications

Borcoat BB108E-1199 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 BB127E and/or BB127E-PW and a compatible powder epoxy.

DIN 30678
NF A49-711

EN ISO 21809-1

Special Features

Borcoat BB108E-1199 The maximum design temperature for normal ground installations is 110°C for onshore and can be used in specially designed systems like offshore coatings up to 140°C depending on surrounding conditions.

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density (Compound)	916 kg/m³	ISO 1183-1, Method A
Melt Flow Rate (230 °C/2,16 kg)	0,9 g/10min	ISO 1133
Tensile Modulus (1 mm/min) (23 °C)	1.100 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min) (23 °C)	8 %	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)	26 MPa	ISO 527-2
Melting temperature (DSC)	162 °C	ISO 11357-3
Oxidation Induction Time (220 °C)	>= 40 min	ISO 11357-6
Vicat softening temperature A50 (10 N)	145 °C	ISO 306
Environmental Stress Crack Resistance (50 °C, Igepal 10 %)	> 5.000 h	ASTM D 1693-A
Charpy Impact Strength, notched (23 °C)	25 kJ/m²	ISO 179-1
Charpy Impact Strength, notched (-20 °C)	3 kJ/m²	ISO 179-1
Hardness, Shore D (1 s)	65	ISO 868
Moisture [1]	< 500 ppm	ISO 15512

[1] Karl Fischer-titration

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

Polypropylene
Borcoat BB108E-1199

Application Related Tests

Property	Typical Value Data should not be used for specification work	Test Method
UV and thermal ageing (ΔMFR)	<= 35 %	ISO 21809-1, Annex G

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	210 - 220 °C
Melt temperature	220 - 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.

Packaging

Package:	Pellets 25 kg Bags on 1375 kg pallet Bulk

Storage

Borcoat BB108E-1199 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 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

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 or ask your Borealis representative.

Borealis AG | Wagramer Strasse 17-19 | 1220 Vienna | Austria
Telephone +43 1 224 00 0 | Fax +43 1 22 400 333
FN 269858a | CCC Commercial Court of Vienna | Website www.borealisgroup.com

Polypropylene
Borcoat BB108E-1199

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

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.