

## Polypropylene

**Borcoat™ BB700E-7032****Syntactic Polypropylene compound for Steel Pipe Coating****Description**

Borcoat BB700E-7032 is a polypropylene (PP) based compound. The product is grey coloured and available in pellet form for processing via extrusion.

**Applications**

Steel pipe coating

Borcoat BB700E-7032 is intended to be used in multi-layer-PP based thermal insulation coatings for design temperatures up to 140°C.

The product is designed to be the base for syntactic PP layers to which the hollow glass spheres are added during the coating process.

**Specifications**

Borcoat BB700E-7032 and/or articles produced from it, are expected to meet the applicable requirements included in the below mentioned standards provided it is processed using sound material handling and processing practices as well as appropriate testing procedures.

EN ISO 12736

**Physical properties**

Property	Typical value *	Unit	Test method
Density	905	kg/m <sup>3</sup>	ISO 1183-1/Method A
Flexural Modulus (2 mm/min) (23°C)	800	MPa	ISO 178
Melt flow rate (230 °C/2.16 kg)	2.1	g/10min	ISO 1133-1
Moisture content <sup>1</sup>	≤500	ppm	ISO 15512
Oxidation induction time (220 °C)	≥30	min	ISO 11357-6
Melting temperature <sup>2</sup>	≥150	°C	ISO 11357-3
Tensile modulus (1 mm/min) (23°C)	900	MPa	ISO 527-2
Tensile stress at yield (50 mm/min) (23°C)	≥20	MPa	ISO 527-2
Tensile strain at yield (50 mm/min) (23°C)	9	%	ISO 527-2
Tensile strain at break (50mm/min) (23°C)	≥400	%	ISO 527-2
Charpy impact strength, notched (23 °C)	≥20	kJ/m <sup>2</sup>	ISO 179-1/1eA
Charpy impact strength, notched (-20 °C)	≥3	kJ/m <sup>2</sup>	ISO 179-1/1eA
Vicat softening temperature A50 (10 N)	140	°C	ISO 306
Hardness, Shore D <sup>3</sup>	65	-	ISO 868

\* Data should not be used for specification work

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

<sup>2</sup> DSC

<sup>3</sup> Measured at 1s

**Processing techniques**

Borcoat BB700E-7032 can be applied by flat die or crosshead extrusion.

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### Borcoat™ BB700E-7032

Processing setting	Typical value/range
Cylinder temperature	220 - 240 °C
Die head temperature	220 - 230 °C
Melt temperature	225 - 235 °C

The actual conditions will depend on the type of equipment used. Please contact your local Borealis representative for such particulars.

### Packaging and storage

Borcoat BB700E-7032 is supplied in 25 kg bags on 1375 kg pallets or in octabins.

Borcoat BB700E-7032 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 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.

The shelf-life of the product can be extended after Borealis has re-tested selected material properties and verified that the test results are still within the product specification.

### Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website [www.borealisgroup.com](http://www.borealisgroup.com).

### Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency. Further information on sustainability and Design for Recycling (DfR) can be found from our websites [www.borealisgroup.com](http://www.borealisgroup.com) and [www.borealiseverminds.com](http://www.borealiseverminds.com).

### 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.