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PRODUCT DATA SHEET

Polypropylene

Borclean™ HC312BF

Polypropylene Homopolymer

Description

Borclean™ HC312BF is a propylene homopolymer designed for usage as rough surface BOPP dielectric film in capacitor application.

Borclean™ HC312BF does not contain slip, antiblock, or antistatic additives.

Cas No. 9003-07-0

Typical characteristics

Borclean™ HC312BF can be described with following typical characteristics:

Super high purity
Low dissipation factor
Very low ash content
Suitable for oil impregnation
High field strength (BDV)
Easy surface roughness control

Applications

Borclean™ HC312BF is intended for following applications:

BOPP dielectrical film for capacitors
Rough surface impregnation capacitor films

Physical properties

Property	Typical value *	Unit	Test method
Melt flow rate (230 °C/2.16 kg)	3.2	g/10min	ISO 1133-1
Ash content	<20	ppm	Borealis Test Method
Aluminium content	<3	ppm	Borealis Test Method
Titanium content	<3	ppm	Borealis Test Method
Chloride content	<3	ppm	Borealis Test Method
Molecular weight distribution	Broad	-	Borealis Test Method

* Data should not be used for specification work

Electrical properties

Property	Typical value *	Unit	Test method
Relative permittivity (1MHz)	2.25		IEC 62631-2-1

* Data should not be used for specification work

Processing techniques

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate subsequent recycling. Reprocessed and recycled Borclean material cannot be used for the production of capacitor film.

Packaging and storage

Borclean™ HC312BF has a maximum shelf life of 18 months from production date if stored in unopened original packages, under dry and clean conditions at temperatures below 50°C and protected from UV light. Recommended storage time at customer should not exceed 6 months. Improper storage can initiate degradation, which results in odor generation and color changes and can have negative effects on the physical properties of this product.

Borclean™ is a trademark of the Borealis Group

Polypropylene

Borclean™ HC312BF

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.

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 and 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.
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