

PRODUCT DATA SHEET

Polypropylene HC205TF

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Description

HC205TF is a special nucleated polypropylene homopolymer intended for thermoforming packaging. Its increased crystallisation temperature allows reduced cycle time and increased output. Products originating from this grade have excellent transparency and organoleptics as well as a good balance of stiffness and impact strength at ambient temperatures.

CAS-No. 9003-07-0

Applications

HC205TF is recommended for:

In line and off line thermoforming
High transparent trays, cups and containers
Housewares and thin wall packaging

Margarine tubs and dairy containers
Blending with copolymers for lids
Strapping, stretch tape and monofilaments

Special Features

HC205TF is optimised to deliver:

Excellent processability
Reduced cycle time and increased output
Broad application window
Consistent shrinkage behaviour after forming
Excellent clarity

Very good stiffness and impact balance
High gloss
Excellent transparency
Excellent organoleptic properties

Physical Properties

Property	Typical Value	Test Method
Melt Flow Rate (230 °C/2,16 kg)	4 g/10min	ISO 1133
Flexural Modulus (5 mm/min) ¹	1.700 MPa	ISO 178
Melting temperature (DSC)	163 °C	ISO 3146
Crystallisation temperature (DSC)	125 °C	ISO 11357-3
Heat Deflection Temperature (0,45 MPa)	105 °C	ISO 75-2
Vicat softening temperature A50 ¹	155 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	4 kJ/m ²	ISO 179/1eA

¹ Measured on injection moulded specimens, conditioned at 23 °C and 50 % relative humidity.

Storage

HC205TF 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.

More information on storage is found in our "Safety data sheet" / "Product safety information sheet".



Polypropylene HC205TF

Safety

The product is not classified as dangerous. Please see the Safety data sheet (SDS) / Product safety information sheet (PSIS) for details on various aspects of safety, recovery and disposal of the products. 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.

Issuer:

Product Management / Petar Doshev
Marketing Consumer Products / Magdalena Weickinger

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