PRODUCT DATA SHEET

09.11.2020 Ed.11

Polypropylene
HC205TF

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 Data should not be used for specification work	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/m²	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".

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BOREALIS

Manufacturer website: https://www.borealisgroup.com/

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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

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.

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