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, good organoleptic properties, good balance of stiffness and impact strength at ambient temperatures.

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

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
Crystallization 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)	5 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

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Safety
The product is not classified as dangerous. 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
The following related documents are available on request, and represent various aspects on the usability, safety, recovery and disposal of the product.

"Safety data sheet" / "Product safety information sheet"
Statement on chemicals, regulations and standards
Statement on compliance to food contact regulations
Statement on polymer additives and BSE

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