

# Borealis PP HC205TF

Polypropylene Homopolymer

Borealis AG

## Message:

HC205TF is a polypropylene homopolymer intended for thermoformed packaging applications. This grade is produced using the Borealis nucleating technology. 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.

General Information			
Additive	Nucleating Agent		
Features	Crystalline		
	Fast Molding Cycle		
	Good Impact Resistance		
	Good Organoleptic Properties		
	Good Processability		
	Good Stiffness		
	High Clarity		
	High Gloss		
	Homopolymer		
	Nucleated		
Uses	Blending		
	Containers		
	Cups		
	Food Containers		
	Household Goods		
	Lids		
	Packaging		
	Support Trays		
	Thin-walled Packaging		
Appearance	Clear/Transparent		
Forms	Pellets		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1750	MPa	ISO 527-2/1

Tensile Stress (Yield)	35.5	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Flexural Modulus <sup>1</sup>	1700	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C, Injection Molded)	5.0	kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	106	°C	ISO 75-2/B
Melting Temperature (DSC)	164 to 168	°C	ISO 3146
NOTE			

1. 5.0 mm/min

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