Sahara C 1000HT

Polypropylene, Impact Copolymer

TECHNICAL DATA SHEET

Description

SAHARA C 1000HT is a nucleated impact copolymer with antistatic additivities used for injection molding applications. It exhibits an outstanding balance of mechanical properties combined with a high fluidity. Sahara C 1000 HT is used in housewares and in thin-walled containers for food packaging (e.g. margarine tubs, yoghurt pots, etc.) and compounding applications. This grade is not intended for medical and pharmaceutical applications.

Product Characteristics

Commercial Status: Experimental grade.

Processing Method: Injection Molding.

Typical applications: Thin wall containers, Housewares.

Typical Properties	Test Method	Nominal Value	Unit
Physical			
Density	ISO1183-1	0.90	g/cm³
Melt Flow Rate 230 °C/2.16 kg.	ISO1133	100	g/10 min
Mechanical			
Flexural Modulus	ISO 178	1690	MPa
Tensile Modulus	ISO 527-1, -2	1690	MPa
Tensile Stress at Yield	ISO 527-1, -2	27	MPa
Tensile Strain at Yield	ISO 527-1, -2	3.10	%
Tensile Strain at Break	ISO 527-1, -2	3.60	%
Charpy Impact Notched, Type 1, Edgewise, Notch A, 23 °C	ISO 179	3.50	kJ/m²
Charpy Impact Notched, Type 1, Edgewise, Notch A, 0 °C	ISO 179	2.10	kJ/m²
Charpy Impact Notched, Type 1, Edgewise, Notch A, -20 °C	ISO 179	2.00	kJ/m²
Notched Izod Impact Strength, 23 °C	ISO 180	2.80	kJ/m²
Thermal			
Heat Deflection Temperature-A, 1.8 MPa, unannealed	ISO 75B-1, -2	58	°C
Heat Deflection Temperature -B, 0.45 MPa, unannealed	ISO 75B-1, -2	108	°C
Vicat Softening Temperature, A50	ISO 306	147	°C
Vicat Softening Temperature, B50	ISO 306	73	°C

Processing Condition

Barrel temperature range: 210 -250 °C

Mold temperature: 15 -40 °C

Melt temperature: 240 -260 °C

Mold Shrinkage: 1 – 2.5 %

Safety and Handling

The product is not classified as a hazardous material. Polypropylene resin should be stored in a manner to prevent a direct exposure to sunlight and/or heat. The storage area should also be dry and preferably do not exceed 50°C. Sipchem would not give warranty to bad storage conditions which may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PP resin within 6 months after delivery. Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that are contained in polymer resins. These particles can under certain conditions pose an explosion hazard. Conveying systems should be grounded, equipped with adequate filters and regularly inspected for leaks. For additional information about safety, handling and storage. Safety Data Sheets (SDS) are available on our website.

Food Contact Regulation

This product complies with the relevant requirements of EU, China, South America & United States Food contact. Declaration of Compliance Certificate are available on our Internet site. For additional specific information please contact Product Stewardship team

Disclaimer

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