

## TECHNICAL DATA SHEET

### Description

**SAHARA C 050 IM** is a polypropylene impact copolymer with an optimized balance of stiffness and toughness, high impact strength at low temperature, low warpage and good thermal ageing stability.

### Product Characteristics

**Commercial Status:** Active.

**Processing Method:** Injection Molding.

**Typical applications:** Crates, Housewares, Opaque Containers, Small Appliances, Sports, Leisure & Toys.

Typical Properties	Test Method	Nominal Value	Unit
<b>Physical</b>			
Density	ISO1183-1	0.90	g/cm <sup>3</sup>
Melt Flow Rate 230 °C/2.16 kg.	ISO1133	5	g/10 min
<b>Mechanical</b>			
Flexural Modulus	ISO 178	1266	MPa
Tensile Modulus	ISO 527-1, -2	1150	MPa
Tensile Stress at Yield	ISO 527-1, -2	24	MPa
Tensile Strain at Yield	ISO 527-1, -2	7	%
Tensile Strain at Break	ISO 527-1, -2	140	%
Charpy Impact Notched, Type 1, Edgewise, Notch A, 23 °C	ISO 179	15	kJ/m <sup>2</sup>
Charpy Impact Notched, Type 1, Edgewise, Notch A, 0 °C	ISO 179	7	kJ/m <sup>2</sup>
Charpy Impact Notched, Type 1, Edgewise, Notch A, -20 °C	ISO 179	5	kJ/m <sup>2</sup>
Notched Izod Impact Strength, 23 °C	ISO 180	13	J/m
<b>Thermal</b>			
Heat Deflection Temperature-A, 1.8 MPa, unannealed	ISO 75B-1, -2	53	°C
Heat Deflection Temperature -B, 0.45 MPa, unannealed	ISO 75B-1, -2	89	°C
Vicat Softening Temperature, A50	ISO 306	147	°C
Vicat Softening Temperature, B50	ISO 306	64	°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**

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

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