

**Safron®** (PolyPropylene)

## Technical Data Sheet

# C740-25RNA

## Natural Polypropylene Impact Copolymer

Safron® C740-25RNA Polypropylene Resin is a nucleated impact copolymer suitable for thin walled containers requiring impact performance. It is characterized by high impact properties and is produced using controlled rheology allowing for a narrow MWD (molecular weight distribution). This imparts dimensional stability to mouldings.

Safron® C740-25RNA Polypropylene Resin contains an antistatic additive.

### Typical Applications

- Ice-cream containers
- Selected industrial containers
- Frozen food containers

PROPERTIES <sup>(1)</sup>	VALUE	UNIT	TEST METHOD
<b>Physical</b>			
Melt Flow Rate, 230 °C/ 2.16 kg	25	g/10min	ISO 1133
Density	0.9	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical <sup>(2)</sup></b>			
Hardness Shore D	58	Units	ISO 868
Tensile Strength at Yield	20	MPa	ISO 527
Elongation at Yield	5	%	ISO 527
Flexural Modulus	900	MPa	ISO 178
<b>Thermal <sup>(2)</sup></b>			
Heat Deflection Temperature - HDT A (1.8 MPa)	50	°C	ISO 75/A
Heat Deflection Temperature - HDT B (0.45 MPa)	78	°C	ISO 75/B
Vicat Softening Point A (10 N)	144	°C	ISO 306/A
Vicat Softening Point B (50 N)	66	°C	ISO 306/B
<b>Impact <sup>(2)</sup></b>			
Charpy Notched Impact Strength (23 °C)	10	kJ/m <sup>2</sup>	ISO 179
Charpy Notched Impact Strength (0 °C)	7	kJ/m <sup>2</sup>	ISO 179
Charpy Notched Impact Strength (-20 °C)	5.5	kJ/m <sup>2</sup>	ISO 179

<sup>(1)</sup> Typical values; not to be construed as specification limits.

<sup>(2)</sup> Injection Moulded specimens

Typical processing conditions	Injection Moulding
Zone 1 (°C)	190
Zone 2 (°C)	220 - 240
Zone 3 (°C)	240 - 250
Zone 4 (°C)	260
Nozzle (°C)	240

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Food Contact Compliance	<p>Safron<sup>®</sup> C740-25RNA Polypropylene Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S. FDA 21 CFR 177.1520(c)3.1a food contact regulations when used unmodified and processed according to good manufacturing practices for food contact applications. The purchaser remains responsible for determining whether the use complies with all relevant regulations.</p>
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**Additional Information**

**Our contact details**

Safripol a division of KAP Diversified Industrial (Pty) Ltd\*  
 Private Bag X 52  
 Bryanston  
 2021  
 South Africa

**Gauteng:**  
 Tel: +27 (0) 11 575 4549

**Kwa-Zulu Natal:**  
 Tel: +27 (0) 31 450 4111

Website: [www.safripol.com](http://www.safripol.com)

Email: [info@safripol.com](mailto:info@safripol.com)

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