

**C142-01N**

**Natural Polypropylene Impact Copolymer**

**Typical Applications**

Safron<sup>®</sup> C142-01N Polypropylene Resin is a nucleated high impact copolymer especially suited for twin walled sheet applications. Its good compressive strength combined with flexibility for easy stamping out of complex shapes, renders it useful for a wide variety of applications. It is also suitable for profile extrusion.

- Twin walled sheet
- Technical injection moulded parts
- Solid sheet and profile extrusion

Safron<sup>®</sup> C142-01N Polypropylene Resin can also be used for the injection moulding of technical parts requiring exceptional toughness, especially at low temperatures.

PROPERTIES <sup>(1)</sup>	VALUE	UNIT	TEST METHOD
<b>Physical</b>			
Melt Flow Rate, 230 °C/ 2.16 kg	1.4	g/10min	ISO 1133
Density	0.91	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical <sup>(2)</sup></b>			
Tensile Strength at Yield	26	MPa	ISO 527
Elongation at Yield	7	%	ISO 527
Flexural Modulus	1200	MPa	ISO 178
<b>Thermal <sup>(2)</sup></b>			
Heat Deflection Temperature - HDT A (1.8 MPa)	52	°C	ISO 75/A
Heat Deflection Temperature - HDT B (0.45 MPa)	74	°C	ISO 75/B
Vicat Softening Point B (50 N)	71	°C	ISO 306/B
<b>Impact <sup>(2)</sup></b>			
Charpy Notched Impact Strength (0 °C)	7	kJ/m <sup>2</sup>	ISO 179
Charpy Notched Impact Strength (-20 °C)	5	kJ/m <sup>2</sup>	ISO 179

(1) Typical values; not to be construed as specification limits.

(2) Injection Moulded specimens.

Typical processing conditions	Extrusion	Injection Moulding
Zone 1 (°C)	190 - 200	180
Zone 2 (°C)	200 - 240	180 - 220
Zone 3 (°C)	240 - 260	220 - 260
Zone 4 (°C)	260	270
Nozzle (°C)	~	240 - 250
Die (°C)	240	~

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<b>Food Contact Compliance</b>	<p>Safron® C142-01N Polypropylene Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S. FDA 21 CFR 177.1520(c)3.2a 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**

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