

**Safron®** (PolyPropylene)

**Technical Data Sheet**
**H712-52RNM**
**Natural Polypropylene Homopolymer**

Safron® H712-52RNM Polypropylene Resin is a nucleated homopolymer for thin wall, high speed injection moulding combining a good balance of physical properties with easy processability. It is produced by controlled rheology, has a narrow molecular weight distribution and produces parts with minimal distortion.

Safron® H712-52RNM Polypropylene Resin is also suitable for extrusion coating and lamination.

**Typical Applications**

- Thin walled food/cosmetic packaging
- Houseware and appliances
- Caps and closures
- Office accessories and pens
- Extrusion coating

PROPERTIES <sup>(1)</sup>	VALUE	UNIT	TEST METHOD
<b>Physical</b>			
Melt Flow Rate, 230 °C/ 2.16 kg	50	g/10min	ISO 1133
Density	0.9	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b> <sup>(2)</sup>			
Tensile Strength at Yield	32	MPa	ISO 527
Elongation at Yield	8.5	%	ISO 527
Flexural Modulus	1500	MPa	ISO 178
<b>Thermal</b> <sup>(2)</sup>			
Heat Deflection Temperature - HDT A (1.8 MPa)	55	°C	ISO 75/A
Heat Deflection Temperature - HDT B (0.45 MPa)	100	°C	ISO 75/B
Vicat Softening Point B (50 N)	84	°C	ISO 306/B
<b>Impact</b> <sup>(2)</sup>			
Charpy Notched Impact Strength (23 °C)	2.3	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	Extrusion	Injection Moulding
Zone 1 (°C)	180 - 200	190
Zone 2 (°C)	200 - 250	220 - 240
Zone 3 (°C)	250 - 270	220 - 260
Zone 4 (°C)	270	260
Nozzle (°C)	~	240
Die (°C)	220 - 240	~

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<b>Food Contact Compliance</b>	<p>Safron<sup>®</sup> H712-52RNM Polypropylene Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S. FDA 21 CFR 177.1520(c)1.1a 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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