

Safron[®] (PolyPropylene)

Technical Data Sheet
H510-02
Natural Polypropylene Homopolymer

Safron[®] H510-02 Polypropylene Resin is a homopolymer suitable for extrusion, general purpose injection and blow moulding. It offers good processability and low water carry-over, required when water baths are used during processing.

Safron[®] H510-02 Polypropylene Resin offers good tenacity and low fibrillation.

Typical Applications

- Integral hinged closures
- Stretched tapes for carpet backing and woven products
- Monofilaments
- Strapping

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
Physical			
Melt Flow Rate, 230 °C/ 2.16 kg	2.0	g/10min	ISO 1133
Density	0.9	g/cm ³	ISO 1183
Mechanical ⁽²⁾			
Tensile Strength at Yield	31	MPa	ISO 527
Elongation at Yield	8.5	%	ISO 527
Flexural Modulus	1360	MPa	ISO 178
Thermal ⁽²⁾			
Heat Deflection Temperature - HDT A (1.8 MPa)	53	°C	ISO 75/A
Heat Deflection Temperature - HDT B (0.45 MPa)	85	°C	ISO 75/B
Vicat Softening Point B (50 N)	90	°C	ISO 306/B
Impact ⁽²⁾			
Charpy Notched Impact Strength (23 °C)	6.8	kJ/m ²	ISO 179

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

⁽²⁾ Injection Moulded specimens

Typical processing conditions	Injection Moulding	Blow Moulding	Extrusion
Zone 1 (°C)	190	180 - 200	190
Zone 2 (°C)	220 - 230	210 - 230	215
Zone 3 (°C)	240 - 250	230 - 250	240
Zone 4 (°C)	245	220 - 240	250
Nozzle (°C)	240	~	~
Die (°C)	~	220	245

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Food Contact Compliance	<p>Safron[®] H510-02 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>
Customer Notice	<p>Safripol strongly encourages its customers to review both their manufacturing processes and their applications of Safripol products from the standpoint of human health and environmental quality to ensure that Safripol products are not used in ways for which they are not intended or tested. Safripol personnel are available to answer your questions and to provide reasonable technical support. Safripol product literature, including safety data sheets, should be consulted prior to use of Safripol products. Current safety data sheets are available from Safripol.</p>
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Published:

July 2019