

Safron[®] (PolyPropylene)

Technical Data Sheet

H500-25RG

Natural Polypropylene Homopolymer

Safron[®] H500-25RG Polypropylene Resin is a controlled rheology polypropylene homopolymer resin suitable for the production of fibres and filaments on long- and short-spinning lines.

Safron[®] H500-25RG Polypropylene Resin offers excellent processability at melt temperatures between 220 and 280 degrees C.

Typical Process Applications

- Spunbonded nonwovens
- Staple fibres
- Continuous filament (CF)
- Bulked continuous filament (BCF)

End Use Applications

- Health and hygiene products
- Carpet face yarns
- Geotextiles
- Upholstery
- Filtration
- Agricultural materials
- Protective clothing

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
Physical			
Melt Flow Rate, 230 °C/ 2.16 kg	26	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	%	ISO 527
Flexural Modulus	1370	MPa	ISO 178
Thermal ⁽²⁾			
Heat Deflection Temperature - HDT A (1.8 MPa)	51	°C	ISO 75/A
Heat Deflection Temperature - HDT B (0.45 MPa)	75	°C	ISO 75/B
Vicat Softening Point B (50 N)	83	°C	ISO 306/B
Impact ⁽²⁾			
Charpy Notched Impact Strength (23 °C)	3	kJ/m ²	ISO 179

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

⁽²⁾ Injection Moulded specimens

Typical processing conditions	Extrusion Fibre Spinning
Zone 1 (°C)	200
Zone 2 (°C)	200 - 270
Zone 3 (°C)	220 - 300
Zone 4 (°C)	240 - 300
Die (°C)	250

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Product Stewardship	<p>At Safripol, protecting people and the environment will be a part of everything we do and every decision we make. Each employee has a primary responsibility in ensuring that our products and operations meet applicable government standards.</p> <p>Our goal is to eliminate all injuries, prevent adverse environment and health impacts, reduce wastes and emissions and promote resource conservation at every stage of the life cycle of our products. The success of this rests with each and every individual involved with Safripol products throughout the life cycle.</p>
Food Contact Compliance	<p>Safron[®] H500-25RG 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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Additional Information

Our contact details

Safripol (Pty) Ltd
Private Bag X 52
Bryanston
2021
South Africa

Website: www.safripol.com

Published:

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

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

Email: info@safripol.com

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