

# 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 <sup>(1)</sup>	VALUE	UNIT	TEST METHOD
<b>Physical</b>			
Melt Flow Rate, 230 °C/ 2.16 kg	26	g/10min	ISO 1133
Density	0.9	g/cm <sup>3</sup>	ISO 1183
<b>Mechanical</b> <sup>(2)</sup>			
Tensile Strength at Yield	31	MPa	ISO 527
Elongation at Yield	8	%	ISO 527
Flexural Modulus	1370	MPa	ISO 178
<b>Thermal</b> <sup>(2)</sup>			
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
<b>Impact</b> <sup>(2)</sup>			
Charpy Notched Impact Strength (23 °C)	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 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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<b>Food Contact Compliance</b>	<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>
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