

H504-12M

Natural Polypropylene Homopolymer

Safron® H504-12M Polypropylene Resin is recommended for the spinning of staple fibre in the range 2 – 25 denier. It is also used for the manufacture of BCF yarns.

Safron® H504-12M Polypropylene Resin is a medium to high flow injection moulding grade for applications where rigidity and fast cycle times are essential.

Typical Process Applications

- High tenacity yarns
- Staple fibres

End use Applications

- Needle punched floor coverings
- Tufted carpets

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
Physical			
Melt Flow Rate, 230 °C/ 2.16 kg	12	g/10min	ISO 1133
Density	0.9	g/cm ³	ISO 1183
Mechanical ⁽²⁾			
Tensile Strength at Yield	30	MPa	ISO 527
Elongation at Yield	7.5	%	ISO 527
Flexural Modulus	1360	MPa	ISO 178
Thermal ⁽²⁾			
Heat Deflection Temperature - HDT A (1.8 MPa)	55	°C	ISO 75/A
Heat Deflection Temperature - HDT B (0.45 MPa)	83	°C	ISO 75/B
Vicat Softening Point B (50 N)	85	°C	ISO 306/B
Impact ⁽²⁾			
Charpy Notched Impact Strength (23 °C)	2.3	kJ/m ²	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)	180 - 240	180 - 200
Zone 2 (°C)	230 - 250	220 - 230
Zone 3 (°C)	240 - 270	240 - 260
Zone 4 (°C)	270	250
Nozzle (°C)	~	240
Die (°C)	240 - 260	~

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Additional Information

Our contact details:	Gauteng: Tel: +27 (0) 11 575 4549
Safripol (Pty) Ltd Private Bag X 52 Bryanston 2021 South Africa	Kwa-Zulu Natal: Tel: +27 (0) 31 450 4111
Website: www.safripol.com	Email: info@safripol.com
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