Safripol (Pty) Ltd

Technical Data Sheet

Safron® (PolyPropylene)

R 107-28

Natural Polypropylene Random Copolymer

Safron® R 107-28 is a Polypropylene random copolymer resin for extrusion coating and lamination grade for woven bags. It contains an anti-gas fading stabilisation package. It is a controlled Rheology grade that offers high flow and low temperature heat sealability.

Typical Applications

- Extrusion coating
- Injection moulding

PROPERTIES (1)	VALUE	UNIT	TEST METHOD
Physical			
Melt Flow Rate, 230 °C/ 2.16 kg	28	g/10min	ISO 1133
Density	0.902	g/cm3	ISO 1183
Mechanical (2)			
Tensile Strength at Yield	28	MPa	ISO 527
Elongation at Yield	11	%	ISO 527
Flexural Modulus	800	MPa	ISO 178
Thermal (2)			
Heat Deflection Temperature - HDT A (1.8 MPa)	47	°C	ISO 75/A
Heat Deflection Temperature - HDT B (0.45 MPa)	67	°C	ISO 75/B
Vicat Softening Point B (50 N)	70	°C	ISO 306/B
Impact (2)			
Charpy Notched Impact Strength (23 °C)	5	kJ/m2	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 – 200	190
Zone 2 (°C)	220 – 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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Product Stewardship	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. 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.
Food Contact Compliance	Safron® R 107-28 Polypropylene Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S. FDA 21 CFR 177.1520(c)3.2a 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.
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Safripol Medical Application Policy	Safripol will not knowingly sell or sample any product or service ("Product") into any commercial or developmental application that is intended for: a) permanent (Long term) contact with internal body fluids or internal body tissues. Long term is a use which exceeds 72 continuous hours. b) use in cardiac prosthetic devices regardless of the length of time involved; (Cardiac prosthetic devices include, but are not limited to, pacemaker leads and devices, artificial hearts, heart valves, intra-aortic balloons and control systems, and ventricular bypass assisted devices); c) use as a critical component in medical devices that support or sustain human life; or d) use specifically by pregnant women or in applications designed specifically to promote or interfere with human reproduction. e) Additionally, all Products intended for use in pharmaceutical applications, other than pharmaceutical packaging, must pass the current Pharmaceutical Liability Guidelines. • New business opportunities require a business assessment prior to sale or sampling of Safripol products. • Authorized distributors and resellers will adhere to this medical policy. • Safripol does not endorse or claim suitability of their products for specific medical applications. It is the responsibility of the medical device or pharmaceutical manufacturer to determine that the Safripol product is safe, lawful, and technically suitable for the intended use. SAFRIPOL MAKES NO WARRANTIES, EXPRESS OR IMPLIED, CONCERNING THE SUITABILITY OF ANY SAFRIPOL PRODUCT FOR USE IN MEDICAL APPLICATIONS.
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