

Safron[®] (PolyPropylene)

Technical Data Sheet
H106-02NSA
Natural Polypropylene Homopolymer

Safron[®] H106-02NSA Polypropylene Resin is a grade designed specifically for carbonated closure applications. The material is highly nucleated offering fast cycle times and also contains slip and antistatic additives. It exhibits a combination of high stiffness and toughness properties, as well as outstanding processing characteristics.

Safron[®] H106-02NSA Polypropylene Resin may also be used for selected injection moulding applications other than closures.

Typical Applications

- Carbonated closures
- Selected domestic and industrial applications

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	35	MPa	ISO 527
Elongation at Yield	7	%	ISO 527
Flexural Modulus	1480	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
Impact ⁽²⁾			
Charpy Notched Impact Strength (23 °C)	6.0	kJ/m ²	ISO 179
Charpy Notched Impact Strength (0 °C)	2.2	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)	200	190
Zone 2 (°C)	200 - 270	230 - 240
Zone 3 (°C)	220 - 300	240 - 260
Zone 4 (°C)	240 - 300	270
Nozzle (°C)	~	240
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[®] H106-02NSA 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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