

Safrene® (High Density PolyEthylene)

Technical Data Sheet

M 9255F

High Density Polyethylene

Safrene® M 9255F High Density Polyethylene Resin is a high molecular weight grade which exhibits high stiffness and excellent impact resistance at low gauges. It processes well on most modern generation extruders and can be drawn down as low as 5 micron.

Typical Applications

- Vest type carrier bags
- Thin gauge bread bags
- Refuse bags

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
Physical			
Melt Flow Rate, 190 °C/ 5 kg	0.3	g/10min	ISO 1133
Melt Flow Rate, 190 °C/ 21.6 kg	8.5	g/10min	ISO 1133
Density ⁽²⁾	0.953	g/cm ³	ISO 1183
Viscosity Number	400	g/cm ³	ISO 1628-3
Mechanical⁽³⁾			
Hardness Shore D	64	Units	ISO 868
Tensile Yield ⁽⁴⁾	27	MPa	ISO 527
Ultimate Tensile ⁽⁴⁾	35	MPa	ISO 527
Ultimate Elongation ⁽⁴⁾	>600	%	ISO 527
Flexural Stress (3,5% Deflection)	22	MPa	ISO 178
Impact⁽³⁾			
Charpy Notched Impact Strength (23 °C)	25	kJ/m ²	ISO 179
Charpy Notched Impact Strength (-30 °C)	18	kJ/m ²	ISO 179
Thermal			
Vicat Softening Point B (50N)	75	°C	ISO 306B
Crystalline Melting Range	130-133	°C	ISO 3146-85

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

(3) Compression moulded samples.
(4) Test speed 50mm/min

Typical processing conditions Film Extrusion

Feed Zone (°C)	170
Melt Temp (°C)	220 - 230

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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>Safrene® M 9255F High Density Polyethylene Resin should comply with Commission Regulation (EU) No 10/2011 and with U.S. FDA 21 CFR 177.1520(c)3.1c 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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Additional Information

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