

**Safrene®** (High Density PolyEthylene)

**Technical Data Sheet**
**M 9255F**
**High Density Polyethylene for Blown Film Applications**

Safrene® M 9255F High Density Polyethylene Resin is a high molecular mass 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 <sup>(1)</sup>	VALUE	UNIT	TEST METHOD
<b>Physical</b>			
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 <sup>(2)</sup>	0.953	g/cm <sup>3</sup>	ISO 1183
Viscosity Number	400	g/cm <sup>3</sup>	ISO 1628-3
<b>Mechanical</b> <sup>(3)</sup>			
Hardness, Shore D	64	Units	ISO 868
Tensile Yield <sup>(4)</sup>	27	MPa	ISO 527
Ultimate Tensile <sup>(4)</sup>	35	MPa	ISO 527
Ultimate Elongation <sup>(4)</sup>	>600	%	ISO 527
Flexural Stress (3,5% Deflection)	22	MPa	ISO 178
<b>Impact</b> <sup>(3)</sup>			
Charpy Notched Impact Strength (23 °C)	25	kJ/m <sup>2</sup>	ISO 179
Charpy Notched Impact Strength (-30 °C)	18	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Vicat Softening Point, Load 5kg	75	°C	ISO 306
Crystalline Melting Range	130-133	°C	ISO 3146-85

<sup>(1)</sup> Typical values; not to be construed as specification limits.

<sup>(2)</sup> Unannealed

<sup>(3)</sup> Compression moulded samples

<sup>(4)</sup> Test speed 50 mm/min

Typical processing conditions	Film Extrusion
Feed Zone (°C)	170
Melt Temp (°C)	220 - 230

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<p><b>Food Contact Compliance</b></p>	<p>Safrene<sup>®</sup> 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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