

Safripol a division of KAP Diversified Industrial (Pty) Ltd

Safrene[®] (High Density PolyEthylene)

Technical Data Sheet

F 7740F2

High Density Polyethylene for General Extrusion Applications

Safrene® F 7740F2 High Density Polyethylene Resin is a medium molecular mass extrusion grade ideally suited to the extrusion and subsequent knitting of tapes and monofilaments typically used in agricultural pockets and shade netting.

Safrene® F 7740F2 High Density Polyethylene Resin is also used for film extrusion applications where excellent roll geometry is required. As a film it exhibits an excellent barrier to moisture.

Safrene® F 7740F2 High Density Polyethylene Resin contains slip and antistatic additives.

Typical Applications

- Monofilaments
- Stretched tapes
- Films for laminating
- Co-extruded films
- Drip-bag over pouches

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
Physical Melt Flow Rate, 190 °C/ 5 kg Melt Flow Rate, 190 °C/ 2.16 kg Density ⁽²⁾ Viscosity Number Spiral Flow Test	1.9 0.4 0.946 270 32	g/10min g/10min g/cm ³ cm ³ /g	ISO 1133 ISO 1133 ISO 1183 ISO 1628-3 Internal
Mechanical (3) Hardness Shore D Tensile Yield ⁽⁴⁾ Ultimate Tensile ⁽⁴⁾ Ultimate Elongation ⁽⁴⁾ Flexural Stress (3.5% Deflection)	60 21 33 >600 17	Units MPa MPa % MPa	ISO 868 ISO 527 ISO 527 ISO 527 ISO 178
Impact (3) Charpy Notched Impact Strength (23 °C) Charpy Notched Impact Strength (-30 °C) Thermal	15 8	kJ/m² kJ/m²	ISO 179 ISO 179
Vicat Softening Point, Load 5kg Crystalline Melting Range	73 130-133	°C	ISO 306 ISO 3146-85

Typical values; not to be construed as specification limits.

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

Typical processing conditions	Extrusion	Film Extrusion
Feed Zone (°C)	170	170
Die (°C)	250 - 260	210 - 220
Melt Temp (°C)	210 - 250	190 - 240

⁽²⁾ Unannealed



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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 employ has a primary responsibility in ensuring that our products and operations meet applicable government standards.		
		erse environment and health impacts, reduce wastes and emissions and promote cycle of our products. The success of this rests with each and every individual ecycle.	
Food Contact Compliance	Safrene® F 7740F2 High Density Polyethylene 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.		
Customer Notice	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*.		
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	Additional I	nformation	
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