

Safripol a division of KAP Diversified Industrial (Pty) Ltd

Safrene® (High Density PolyEthylene)

Technical Data Sheet

F 7650

High Density Polyethylene for Blow Moulding Applications

Safrene® F 7650 High Density Polyethylene Resin is a bimodal medium molecular mass grade with good processing properties. It exhibits good impact strength and excellent environmental stress-crack resistance.

Safrene® F 7650 High Density Polyethylene Resin is recommended for all general purpose applications up to 20 litre in volume.

Typical Applications

- Toiletry containers
- General purpose containers
- Household and industrial chemical containers

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
Physical Melt Flow Rate, 190 °C/ 5 kg Melt Flow Rate, 190 °C/ 2.16 kg Density ⁽²⁾	1.7	g/10min	ISO 1133
	0.33	g/10min	ISO 1133
	0.950	g/cm ³	ISO 1183
Mechanical (3) Hardness Shore D Tensile Yield ⁽⁴⁾ Ultimate Tensile ⁽⁴⁾ Ultimate Elongation ⁽⁴⁾ Flexural Modulus Environmental Stress-Crack Resistance ⁽⁵⁾	62	Units	ISO 868
	23	MPa	ISO 527
	36	MPa	ISO 527
	>600	%	ISO 527
	1200	MPa	ISO 178
	>1000	hours	ASTM D1693
Impact (3) Charpy Notched Impact Strength (23 °C) Charpy Notched Impact Strength (-30 °C)	11	kJ/m²	ISO 179
	8	kJ/m²	ISO 179
Thermal Vicat Softening Point (10N) Vicat Softening Point (50N) Crystalline Melting Range	126	°C	ISO 306/A50
	70	°C	ISO 306/B50
	130-133	°C	ISO 3146

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

Typical processing conditions	Blow Moulding
Feed Zone (°C)	160 - 180
Zone1 (°C)	170 - 190
Zone 2 (°C)	180 - 200
Zone 3 (°C	180 - 190
Die (°C)	180 - 190
Melt Temp (°C)	180 - 190

⁽²⁾ Unannealed

⁽³⁾ Compression moulded samples

⁽⁴⁾ Test speed 50 mm/min

⁽⁵⁾ Bell test condition B, 50°C, 10% Igepal, F50.



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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.		
- C (C (C (C (C (C (C (C (C (C	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	Safrene® F 7650 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.		
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*.		
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. 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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	Additional Information		
Our contact details			
Safripol a division of KAP Dive Private Bag X 52 Bryanston	ersified Industrial (Pty) Ltd* Gauteng: Tel: +27 (0) 11 575 4549		
2021 South Africa	Kwa-Zulu Natal: Tel: +27 (0) 31 450 4111		
Website: www.safripol.com	www.safripol.com Email: info@safripol.com		
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