

## Safrene™ (High Density PolyEthylene)

### Technical Data Sheet

### C 7260

#### High Density Polyethylene for Injection Moulding Applications

Safrene® C 7260 High Density Polyethylene Resin is an injection moulding grade with high flow characteristics, good mechanical strength, high stiffness combined with low distortion tendency. It is a general purpose injection moulding grade especially suited for crates and industrial containers.

#### Typical Applications

- Crates for beverages, dairy and meat use
- Caps and closures
- Storage and transport containers
- Buckets and lids

PROPERTIES <sup>(1)</sup>	VALUE	UNIT	TEST METHOD
<b>Physical</b>			
Melt Flow Rate, 190 °C/ 5 kg	23	g/10min	ISO 1133
Melt Flow Rate, 190 °C/ 2.16 kg	7	g/10min	ISO 1133
Density <sup>(2)</sup>	0.958	g/cm <sup>3</sup>	ISO 1183
Spiral Flow Test	47	cm	Internal
<b>Mechanical <sup>(3)</sup></b>			
Hardness Shore D	65	Units	ISO 868
Tensile Stress at Yield <sup>(4)</sup>	32	MPa	ISO 527
Tensile Stress at Break <sup>(4)</sup>	20	MPa	ISO 527
Tensile Strain at Yield <sup>(4)</sup>	10	%	ISO 527
Tensile Strain at Break <sup>(4)</sup>	>800	%	ISO 527
Flexural Modulus	1450	MPa	ISO 178
<b>Impact <sup>(3)</sup></b>			
Charpy Notched Impact Strength (23 °C)	4	kJ/m <sup>2</sup>	ISO 179
Charpy Notched Impact Strength (-30 °C)	4	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Vicat Softening Point (10N)	127	°C	ISO 306/A50
Vicat Softening Point (50N)	72	°C	ISO 306/B50
Crystalline Melting Range	130 - 133	°C	ISO 3146

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

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

Typical processing conditions	Injection Moulding
Melt Temp (°C)	200 - 260

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<b>Food Contact Compliance</b>	<p>Safrene<sup>®</sup> C 7260 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.</p>
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**Additional Information**

Our contact details:

Safripol (Pty) Ltd  
Private Bag X 52 Bryanston  
2021  
South Africa

**Gauteng:**  
Tel: +27 (0) 11 575 4549

**Kwa-Zulu Natal:**  
Tel: +27 (0) 31 450 4111

Website: [www.safripol.com](http://www.safripol.com)

Email: [info@safripol.com](mailto:info@safripol.com)

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