

D 7255HL

High Density Polyethylene for Injection Moulding Applications

Safrene® D 7255HL High Density Polyethylene Resin is an injection moulding grade with good mechanical strength, high stiffness, good environmental stress-crack resistance and low distortion tendency. It is particularly suitable for durable thick walled articles.

Safrene® D 7255HL High Density Polyethylene Resin is stabilized against UV degradation.

Typical Applications

- Open crates
- Refuse bins
- Open drums
- Other thick walled articles, e.g. Closures

PROPERTIES ⁽¹⁾	VALUE	UNIT	TEST METHOD
Physical			
Melt Flow Rate, 190 °C/ 5 kg	11	g/10min	ISO 1133
Melt Flow Rate, 190 °C/ 2.16 kg	3	g/10min	ISO 1133
Density ⁽²⁾	0.949	g/cm ³	ISO 1183
Viscosity Number	160	cm ³ /g	ISO 1628-3
Spiral Flow Test	39	cm	Internal
Mechanical ⁽³⁾			
Hardness Shore D	64	Units	ISO 868
Tensile Yield ⁽⁴⁾	26	MPa	ISO 527
Ultimate Tensile ⁽⁴⁾	30	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)	5	kJ/m ²	ISO 179
Charpy Notched Impact Strength (-30 °C)	5	kJ/m ²	ISO 179
Thermal			
Vicat Softening Point, Load 5kg	70	°C	ISO 306
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 50 mm/min

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

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<p>Food Contact Compliance</p>	<p>Safrene® D 7255HL 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

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