

Safrene® F 7650

High Density Polyethylene

Safripol (PTY) LTD

Message:

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

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

General Information			
Features	High ESCR (Stress Cracking Resistance)		
	Impact resistance, good		
	Workability, good		
	Compliance of Food Exposure		
	Medium molecular weight		
Uses	Container		
	General		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1c		
	Europe 10/1/2011 12:00:00 AM		
Processing Method	Blow molding		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.950	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.33	g/10 min	ISO 1133
190°C/5.0 kg	1.6	g/10 min	ISO 1133
Spiral Flow	32.0	cm	Internal method
Viscosity Number (Reduced Viscosity)	280.0	ml/g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	62		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, molding	23.0	MPa	ISO 527-2/50
Fracture, molding	36.0	MPa	ISO 527-2/50
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2/50
Flexural Stress (3.5% Strain, Compression Molded)	19.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179

-30°C, molded	8.0	kJ/m ²	ISO 179
23°C, molded	12	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	70.0	°C	ISO 306/B
Peak Crystallization Temperature (DSC)	130 - 133	°C	ISO 3146

Additional Information

Blow Molding conditions:

Feed Zone: 160 to 180°C

Zone 1: 170 to 190°C

Zone 2: 180 to 200°C

Zone 3: 180 to 190°C

Die: 180 to 190°C

Melt Temperature: 180 to 190°C

NOTE

1. Unannealed

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

