Safrene® M 7650

High Density Polyethylene

Safripol (PTY) LTD

Message:

Safrene® M 7650 High Density Polyethylene Resin is a high molecular mass grade suitable for extrusion blow moulding of containers greater than 20 litre capacity. It has a high rigidity and hardness with very good impact strength and environmental stress-crack resistance properties.
Safrene® M 7650 High Density Polyethylene Resin was primarily designed for the blow moulding of large hollow articles but may be used for smaller mouldings where exceptional environmental stress-crack resistance and impact strength are required.

General Information	
Features	Rigidity, high
	High ESCR (Stress Cracking Resistance)
	High molecular weight
	Impact resistance, good
	Compliance of Food Exposure
	High hardness
Uses	Bellows
	Sheet
	Container
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1c
	Europe 10/1/2011 12:00:00 AM
Processing Method	Blow molding
	Pipeline extrusion molding
	Extrusion
	Extrusion blow molding
	Sheet extrusion molding

Physical	Nominal Value	Unit	Test Method
Density [1]	0.953	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	9.5	g/10 min	ISO 1133
190°C/5.0 kg	0.35	g/10 min	ISO 1133
Viscosity Number (Reduced Viscosity)	350.0	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	26.0	MPa	ISO 527-2/50
Fracture, molding	40.0	MPa	ISO 527-2/50
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2/50
Flexural Stress (3.5% Strain,Compression Molded)	22.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179
-30°C, molded	20	kJ/m^2	ISO 179
23°C, molded	23	kJ/m^2	ISO 179
Thermal	**Nominal Value**	**Unit**	**Test Method**
Vicat Softening Temperature	80.0	°C	ISO 306/B
Peak Crystallization Temperature (DSC)	130 - 133	°C	ISO 3146

Additional Information

Blow Molding conditions:
Feed Zone: 180°C
Zone 1: 190 to 200°C
Zone 2: 200 to 210°C
Zone 3: 200°C
Die: 200°C
Melt Temperature: 200°C

NOTE

1. Unannealed

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