Safrene® M 6650

High Density Polyethylene

Safripol (PTY) LTD

Message:

Safrene® M 6650 High Density Polyethylene Resin is a high molecular mass grade specifically designed for extrusion blow moulding of containers greater than 20 liter capacity. It has a high melt viscosity and is primarily recommended for use on modern generation equipment.
Safrene® M 6650 High Density Polyethylene Resin exhibits outstanding impact strength, high rigidity and good environmental stress-crack resistance. It is particularly suitable for drum applications between 50 liter and 250 liter and satisfies SABS 1176 requirements for the transportation of dangerous goods.

General Information	
Features	Ultra-high impact resistance
	Rigidity, high
	High ESCR (Stress Cracking Resistance)
	High molecular weight
	Compliance of Food Exposure
	Viscosity, High
Uses	Industrial container
	Drum
	Optical cable insulation material
	Container
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1c
	Europe 10/1/2011 12:00:00 AM
Processing Method	Blow molding
	Extrusion
	Extrusion blow 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	5.0	g/10 min	ISO 1133
190°C/5.0 kg	0.20	g/10 min	ISO 1133
Viscosity Number (Reduced Viscosity)	450.0	ml/g	ISO 1628
Hardness	**Nominal Value**	**Unit**	**Test Method**
Durometer Hardness (Shore D, Compression Molded)	63		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	46.0	MPa	ISO 527-2/50
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2/50
Flexural Stress (3.5% Strain,Compression Molded)	21.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (-30°C, Compression Molded)	35	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: 170 to 190°C Zone 1: 180 to 200°C Zone 2: 200 to 220°C Zone 3: 200 to 220°C Melt Temperature: 200 to 220°C			
Extrusion	**Nominal Value**	**Unit**	
Cylinder Zone 1 Temp.	170 - 190	°C	
Cylinder Zone 2 Temp.	180 - 200	°C	
Cylinder Zone 3 Temp.	200 - 220	°C	
Cylinder Zone 4 Temp.	200 - 220	°C	
Melt Temperature	200 - 220	°C	
NOTE			
1.	Unannealed		

Recommended distributors for this material

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