

Safrene® M 9255F

High Density Polyethylene

Safripol (PTY) LTD

Message:

Safrene® M 9255F Polyethylene Resin is a high molecular mass polymer grade which exhibits high stiffness and excellent impact resistance at low gauges. It processes well on most modern generation extruders and can be drawn down as low as 5 micron.

General Information			
Features	Ultra-high impact resistance		
	Rigidity, high		
	High molecular weight		
	Workability, good		
	Compliance of Food Exposure		
Uses	Bags		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1c		
	Europe 10/1/2011 12:00:00 AM		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density ¹	0.953	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	8.5	g/10 min	ISO 1133
190°C/5.0 kg	0.30	g/10 min	ISO 1133
Viscosity Number (Reduced Viscosity)	400.0	ml/g	ISO 1628
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	64		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, molding	27.0	MPa	ISO 527-2/50
Fracture, molding	35.0	MPa	ISO 527-2/50
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2/50
Flexural Modulus (Compression Molded)	22.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C, molded	18	kJ/m ²	ISO 179
23°C, molded	25	kJ/m ²	ISO 179

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	75.0	°C	ISO 306/B
Peak Crystallization Temperature (DSC)	130 - 133	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	220 - 230	°C	
Extrusion instructions			
Feed Zone: 170°C			
NOTE			
1.	Unannealed		

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