

# Safrene® M 9245F

High Density Polyethylene

Safripol (PTY) LTD

## Message:

Safrene® M 9245F High Density Polyethylene Resin is a high molecular mass grade which exhibits excellent impact resistance in high density polyethylene rich film formulation. It processes well on most modern generation extruders and can be drawn down as low as 6 micron.

General Information			
Features	High molecular weight Impact resistance, high 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 <sup>1</sup>	0.944	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/21.6 kg	8.4	g/10 min	ISO 1133
190°C/5.0 kg	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, molding	24.0	MPa	ISO 527-2/50
Fracture, molding	33.0	MPa	ISO 527-2/50
Tensile Strain (Break, Compression Molded)	> 700	%	ISO 527-2/50
Flexural Modulus (Compression Molded)	875	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C, molded	11	kJ/m <sup>2</sup>	ISO 179
23°C, molded	23	kJ/m <sup>2</sup>	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	73.0	°C	ISO 306/B
Peak Crystallization Temperature (DSC)	129 - 132	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Melt Temperature	210 - 220	°C	

## Extrusion instructions

Feed Zone: 170°C

## NOTE

1. Unannealed

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## Recommended distributors for this material

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