

Safrene® F 7740F2

High Density Polyethylene

Safripol (PTY) LTD

Message:

Safrene® F 7740F2 High Density Polyethylene Resin is a medium molecular mass extrusion grade ideally suited to the extrusion and subsequent knitting of tapes and monofilaments typically used in agricultural pockets and shade netting.

Safrene® F 7740F2 High Density Polyethylene Resin is also used for film extrusion applications where excellent roll geometry is required. As a film it exhibits an excellent barrier to moisture.

Safrene® F 7740F2 High Density Polyethylene Resin contains slip and antistatic additives.

General Information			
Additive		Anti-caking agent slip agent	
Features		Moisture proof smoothness Anti-caking property Compliance of Food Exposure Medium molecular weight	
Uses		Films Laminate Strap Bags monofilament Agricultural application Web	
Agency Ratings		FDA 21 CFR 177.1520(c) 3.2a Europe 10/1/2011 12:00:00 AM	
Processing Method		Film extrusion Extrusion	
Physical	Nominal Value	Unit	Test Method
Density ¹	0.946	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.40	g/10 min	ISO 1133
190°C/5.0 kg	1.7	g/10 min	ISO 1133
Spiral Flow	32.0	cm	Internal method
Viscosity Number (Reduced Viscosity)	270.0	ml/g	ISO 1628

Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, Compression Molded)	60		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2/50
Yield, molding	21.0	MPa	ISO 527-2/50
Fracture, molding	33.0	MPa	ISO 527-2/50
Tensile Strain (Break, Compression Molded)	> 600	%	ISO 527-2/50
Flexural Stress (3.5% Strain, Compression Molded)	17.0	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	15	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	73.0	°C	ISO 306/B
Peak Crystallization Temperature (DSC)	130 - 133	°C	ISO 3146
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170	°C	
Melt Temperature	190 - 240	°C	
Die Temperature	210 - 220	°C	
Extrusion instructions			
Film Extrusion Conditions: Feed Zone: 170°C Die: 210 to 220°C Melt Temperature: 190 to 240°C			
NOTE			
1.	Unannealed		

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