

Solvay Specialty Polymers Polidiemme® G/450 Thermoset Elastomer (TSE)

Category : Polymer , Thermoset , Rubber or Thermoset Elastomer (TSE)

Material Notes:

Polidiemme® XLPO -Cross-linkable Polyolefin. Elastomer based compound crosslinkable by ambient moisture, consisting of a silane pregrafted base compound to be used with a catalyst masterbatch (Sioplas® method).Features: Crosslinkable; Good Flexibility; Low ToxicityUses: Cable Jacketing; Low Voltage Insulation; Wire & Cable ApplicationsAdditional Properties: Bending Test - IEC 60811 (-50Â°C): No cracks; Collar Temperature - 140 to 170 Â°C; Head Temperature - 140 to 170 Â°C; Hot Pressure Test - IEC 60811 (150Â°C): < 50 %; Hot Set - IEC 60811 40 %; Hot Set - IEC 60811 0.0 %; Hot Set - IEC 60811 50 %; Hot Set - IEC 60811 0.0 %; Insulation Resistance Constant - IEC 60502 (20Â°C): 15000 MohmÂ·km; Insulation Resistance Constant - IEC 60502 (90Â°C): 500 MohmÂ·km; Water Absorption - IEC 60811 (100Â°C): 0.420 mg/cmÂ²; Water Absorption - IEC 60811 (85Â°C): 0.660 mg/cmÂ²Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Polidiemme-G450-Thermoset-Elastomer-TSE.php

Physical Properties	Metric	English	Comments
Density	0.872 g/cc	0.0315 lb/inÂ³	ASTM D792
Melt Flow	1.1 g/10 min @Load 2.16 kg, Temperature 190 Â°C	1.1 g/10 min @Load 4.76 lb, Temperature 374 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	16	16	ISO 868
Tensile Strength at Break	7.70 MPa	1120 psi	ASTM D638
Elongation at Break	400 %	400 %	ASTM D638

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.40e+14 ohm-cm @Temperature 90.0 Â°C	1.40e+14 ohm-cm @Temperature 194 Â°F	ASTM D257
	4.10e+15 ohm-cm @Temperature 20.0 Â°C	4.10e+15 ohm-cm @Temperature 68.0 Â°F	ASTM D257
Dielectric Constant	2.3 @Frequency 1000 Hz	2.3 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	28.0 kV/mm	711 kV/in	ASTM D149
Dissipation Factor	0.0011	0.0011	ASTM D150

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Processing Properties	Metric	English	Comments
Zone 1	120 - 140 Â°C	248 - 284 Â°F	
Zone 2	120 - 150 Â°C	248 - 302 Â°F	
Zone 3	130 - 160 Â°C	266 - 320 Â°F	
Zone 4	140 - 170 Â°C	284 - 338 Â°F	
Die Cooling Temperature	140 - 170 Â°C	284 - 338 Â°F	

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	North America	
RoHS Compliance	RoHS Compliant	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China