

Solvay Specialty Polymers Polidienne® G/420 Thermoset Elastomer (TSE)

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

Material Notes:

Polidienne® 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) Standards complying: Cenelec HD 22.1 E17; Cenelec HD 603 DIH1, DIH2 and DIH3; IEC 60502 EPR and HEPR; IEC 60092/351 EPR and HEPR; BS 7655 GP4, GP5, GP6 and GP7; EN 50363-0 G7; VDE 0207/20 3GI3 Features: Crosslinkable; Low Toxicity Uses: Low Voltage Insulation; Power Cable Jacketing; Wire & Cable Applications Additional Properties: Change in Bend Test - IEC 60811 (150°C): No cracks; Collar Temperature - 170 to 190 °C; Head Temperature - 170 to 190 °C; Hot Set - IEC 60811 30 %; Hot Set - IEC 60811 0.0 %; Hot Set - IEC 60811 50 %; Hot Set - IEC 60811 0.0 %; Insulation Resistance Constant - IEC 60502 (20°C): 15000 Mohm-km; Insulation Resistance Constant - IEC 60502 (90°C): 5000 Mohm-km; Water Absorption - IEC 60811 (100°C): 1.00 mg/cm² Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Polidienne-G420-Thermoset-Elastomer-TSE.php

Physical Properties	Metric	English	Comments
Density	0.910 g/cc	0.0329 lb/in³	ASTM D792
Melt Flow	1.3 g/10 min @Load 2.16 kg, Temperature 190 °C	1.3 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	32	32	ISO 868
Tensile Strength at Break	20.5 MPa	2970 psi	ASTM D638
Elongation at Break	470 %	470 %	ASTM D638
Tensile Modulus	0.00700 GPa	1.02 ksi	ISO 527-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+15 ohm-cm @Temperature 90.0 °C	1.30e+15 ohm-cm @Temperature 194 °F	ASTM D257
	4.10e+15 ohm-cm @Temperature 20.0 °C	4.10e+15 ohm-cm @Temperature 68.0 °F	ASTM D257
Dielectric Constant	2.3 @Frequency 1000 Hz	2.3 @Frequency 1000 Hz	ASTM D150
Dielectric Strength	39.0 kV/mm	991 kV/in	ASTM D149

Electrical Properties	Metric	English	Comments
Dissipation Factor	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150

Processing Properties	Metric	English	Comments
Zone 1	140 - 160 Â°C	284 - 320 Â°F	
Zone 2	150 - 170 Â°C	302 - 338 Â°F	
Zone 3	160 - 180 Â°C	320 - 356 Â°F	
Zone 4	170 - 190 Â°C	338 - 374 Â°F	
Die Cooling Temperature	180 - 220 Â°C	356 - 428 Â°F	

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

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