

Solvay Specialty Polymers Polidienne® G/400 Thermoset Elastomer (TSE)

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

Material Notes:

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 EI4, EI6, EI7 and EM3; Cenelec HD 603 DIH1; IEC 60502 EPR; IEC 60092/351 EPR; BS 7655 GP4, GP5 and GP7; VDE 207/20 3GI3 Features: Crosslinkable; Good Flexibility; Low Toxicity Uses: Cable Jacketing; Low Voltage Insulation; Wire & Cable Applications Additional Properties: Collar Temperature - 140 to 170 °C; Head Temperature - 140 to 170 °C; Hot Set - IEC 60811 50 %; Hot Set - IEC 60811 0.0 %; Hot Set - IEC 60811 70 %; Hot Set - IEC 60811 0.0 %; Insulation Resistance Constant - IEC 60502 (20 °C): 15000 Mohm·km; Insulation Resistance Constant - IEC 60502 (90 °C): 1000 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-G400-Thermoset-Elastomer-TSE.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	23	23	ISO 868
Tensile Strength at Break	12.0 MPa	1740 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638
Tear Strength	8.00 kN/m	45.6 pli	ASTM D624

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+14 ohm-cm @Temperature 90.0 °C	2.70e+14 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	33.0 kV/mm	838 kV/in	ASTM D149

Electrical Properties	0.0010 Metric	0.0010 English	Comments
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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	

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