

Solvay Specialty Polymers Polidan® EC/51 Polyethylene, Crosslinked (XLPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Crosslinkable

Material Notes:

Flexible low density polyethylene based compound crosslinkable by moisture; it consists of a silane pregrafted base compound (Sioplas® method) to be used with a catalyst masterbatch. Standards complying: IEC 60502 XLPE, IEC 60092/351, CEI 18-16/351, BS 7655 GP8, VDE 0276 2X11, HD 604 2X11 Features: Crosslinkable; Good Flexibility; Low Density; Low Toxicity Uses: Low Voltage Insulation; Wire & Cable Applications Additional Properties: Change in Bend Test - IEC 60811 (150Å°C): No cracks; Collar Temperature - 170 to 190 Å°C; Head Temperature - 170 to 190 Å°C; Hot Set - IEC 60811 50 %; Hot Set - IEC 60811 0.0 %; Insulation Resistance Constant - IEC 60502 (20Å°C): 15000 MohmÅ·km; Insulation Resistance Constant - IEC 60502 (90Å°C): 10000 MohmÅ·km; Water Absorption - IEC 60811 (100Å°C): 0.600 mg/cmÅ² Information provided by Solvay Specialty Polymers.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Polidan-EC51-Polyethylene-Crosslinked-XLPE.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/inÅ³	ASTM D792
Melt Flow	0.35 g/10 min @Load 2.16 kg, Temperature 190 Å°C	0.35 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	88	88	[ISO 868
Hardness, Shore D	30	30	ISO 868
Tensile Strength at Break	17.0 MPa	2470 psi	ASTM D638
Elongation at Break	540 %	540 %	ASTM D638
Tensile Modulus	0.00610 GPa	0.885 ksi	ISO 527-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.70e+15 ohm-cm @Temperature 90.0 Å°C	2.70e+15 ohm-cm @Temperature 194 Å°F	ASTM D257
	4.10e+15 ohm-cm @Temperature 20.0 Å°C	4.10e+15 ohm-cm @Temperature 68.0 Å°F	ASTM D257
Dielectric Constant	2.3 @Frequency 1000 Hz	2.3 @Frequency 1000 Hz	ASTM D150

Dielectric Strength Electrical Properties	35.0 kV/mm Metric	889 kV/in English	ASTM D149 Comments
Dissipation Factor	0.00060 @Frequency 1000 Hz	0.00060 @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	160 - 180 Â°C	320 - 356 Â°F	
Die Cooling Temperature	180 - 230 Â°C	356 - 446 Â°F	

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

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