

## Solvay Specialty Polymers Polidan® EC/110 Polyethylene, Crosslinked (XLPE)

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

### Material Notes:

**Polidan® XLPE-PEX -Cross-linkable Polyethylene.** 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, HD 626 S1 TIX2 Features: Crosslinkable; 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 Air Shrinkage - IEC 60811 (130Å°C): < 4.0 %; Hot Set - IEC 60811 < 70 %; 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): < 0.500 mg/cmÅ²; Water Absorption - IEC 60811 (85Å°C): < 0.500 mg/cmÅ² Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Polidan-EC110-Polyethylene-Crosslinked-XLPE.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Polidan-EC110-Polyethylene-Crosslinked-XLPE.php)

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/inÅ³	ASTM D792
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 Å°C	0.70 g/10 min @Load 4.76 lb, Temperature 374 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	51	51	ISO 868
Tensile Strength at Break	21.6 MPa	3130 psi	ASTM D638
Elongation at Break	500 %	500 %	ASTM D638

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	34.0 kV/mm	864 kV/in	ASTM D149
	0.00060	0.00060	

Designation Factor Electrical Properties	Metric @ Frequency 1000 Hz	English @ Frequency 1000 Hz	ASTM D150 Comments
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Processing Properties	Metric	English	Comments
Zone 1	140 - 160 Å°C	284 - 320 Å°F	
Zone 2	150 - 170 Å°C	302 - 338 Å°F	
Zone 3	160 - 180 Å°C	320 - 356 Å°F	
Zone 4	160 - 180 Å°C	320 - 356 Å°F	
Die Cooling Temperature	180 - 220 Å°C	356 - 428 Å°F	

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

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