

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

**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

Standard complying

- IEC 60502 XLPE, IEC 60092/360, BS 7655 GP8, VDE 0276 2XI1, HD 604 2XI1.

Crosslinkable; Low Density; Low Toxicity

Uses: Low Voltage Insulation; Wire & Cable Applications

Availability: Asia Pacific; Europe; North America

Information provided by Solvay Specialty Polymers.

Physical Properties	Metric	English	Comments
Specific Gravity	0.920 g/cc	0.920 g/cc	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	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 °C	2.70e+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	34.0 kV/mm	864 kV/in	ASTM D149
Dissipation Factor	0.00060 @Frequency 1000 Hz	0.00060 @Frequency 1000 Hz	ASTM D150

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

Descriptive Properties			
RoHS Compliance		RoHS Compliant	