

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

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

### Material Notes:

Medium 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 2XI1, HD 604 2XI1, NF C33-209; HD 626 S1 TX2, TX3, TX4, TX5, TX8. Features: Crosslinkable; Low Toxicity; Medium Density. Uses: Low Voltage Insulation; 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 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): < 0.500 mg/cm²; Water Absorption - IEC 60811 (85°C): < 0.500 mg/cm². Information provided by Solvay Specialty Polymers.

Order this product through the following link:

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

| Physical Properties | Metric                                                | English                                               | Comments   |
|---------------------|-------------------------------------------------------|-------------------------------------------------------|------------|
| Density             | 0.940 g/cc                                            | 0.0340 lb/in³                                         | ASTM D792  |
| Melt Flow           | 0.44 g/10 min<br>@Load 5.00 kg,<br>Temperature 190 °C | 0.44 g/10 min<br>@Load 11.0 lb,<br>Temperature 374 °F | ASTM D1238 |

| Mechanical Properties     | Metric   | English  | Comments  |
|---------------------------|----------|----------|-----------|
| Tensile Strength at Break | 21.5 MPa | 3120 psi | ASTM D638 |
| Elongation at Break       | 420 %    | 420 %    | ASTM D638 |

| Electrical Properties | Metric                                  | English                                 | Comments  |
|-----------------------|-----------------------------------------|-----------------------------------------|-----------|
| Volume Resistivity    | 1.40e+15 ohm-cm<br>@Temperature 90.0 °C | 1.40e+15 ohm-cm<br>@Temperature 194 °F  | ASTM D257 |
|                       | 4.10e+15 ohm-cm<br>@Temperature 20.0 °C | 4.10e+15 ohm-cm<br>@Temperature 68.0 °F | ASTM D257 |
| Dielectric Constant   | 2.4<br>@Frequency 1000 Hz               | 2.4<br>@Frequency 1000 Hz               | ASTM D150 |
| Dielectric Strength   | 32.0 kV/mm                              | 813 kV/in                               | ASTM D149 |
| Dissipation Factor    | 0.00050<br>@Frequency 1000 Hz           | 0.00050<br>@Frequency 1000 Hz           | ASTM D150 |

| Electrical Properties   | Metric        | English       | Comments |
|-------------------------|---------------|---------------|----------|
| 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 | 200 - 230 Â°C | 392 - 446 Â°F |          |

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

## Contact Songhan Plastic Technology Co.,Ltd.

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