

**ExxonMobil Escorene® LD-411 LDPE Power Cable Insulation (discontinued \*\*)**

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Wire/Cable Grade

**Material Notes:**

Data provided by the manufacturer, Exxon Chemical. A crosslinkable polyethylene homopolymer designed as an electrical grade base resin especially suitable for Henschel blending. Applications: A base resin for fully formulated crosslinkable medium voltage cable insulation compounds.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Escorene-LD-411-LDPE-Power-Cable-Insulation-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-LD-411-LDPE-Power-Cable-Insulation-nbspdiscontinued-.php)

| Physical Properties                   | Metric       | English                   | Comments                      |
|---------------------------------------|--------------|---------------------------|-------------------------------|
| Density                               | 0.921 g/cc   | 0.0333 lb/in <sup>3</sup> | Exxon Method                  |
| Environmental Stress Crack Resistance | <= 1.0 hour  | <= 1.0 hour               | F50, Condition A; ASTM D-1693 |
| Melt Flow                             | 2.3 g/10 min | 2.3 g/10 min              | Exxon Method                  |

| Mechanical Properties      | Metric    | English  | Comments   |
|----------------------------|-----------|----------|------------|
| Hardness, Shore D          | 45        | 45       | ASTM D2240 |
| Tensile Strength, Ultimate | 10.3 MPa  | 1490 psi | ASTM D638  |
| Elongation at Break        | 600 %     | 600 %    | ASTM D638  |
| Flexural Modulus           | 0.200 GPa | 29.0 ksi | ASTM D790  |

| Thermal Properties      | Metric      | English     | Comments     |
|-------------------------|-------------|-------------|--------------|
| Melting Point           | 109 °C      | 228 °F      | Exxon Method |
| Brittleness Temperature | <= -72.0 °C | <= -97.6 °F | ASTM D746    |

| Electrical Properties | Metric             | English             | Comments  |
|-----------------------|--------------------|---------------------|-----------|
| Dielectric Constant   | 2.26               | 2.26                | ASTM D150 |
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz  |           |
| Dielectric Strength   | 21.0 kV/mm         | 533 kV/in           | ASTM D149 |
|                       | @Thickness 3.17 mm | @Thickness 0.125 in |           |
| Dissipation Factor    | 0.00010            | 0.00010             | ASTM D150 |
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz  |           |

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