

**ExxonMobil Escorene® LD-402 LDPE Electrical Jacketing Resin (discontinued \*\*)**

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

**Material Notes:**

Data provided by the manufacturer, Exxon Chemical. A low density polyethylene homopolymer resin designed for high speed extrusions.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Escorene-LD-402-LDPE-Electrical-Jacketing-Resin-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-LD-402-LDPE-Electrical-Jacketing-Resin-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.917 g/cc	0.0331 lb/in <sup>3</sup>	Exxon Method
Environmental Stress Crack Resistance	<= 5.0 hour	<= 5.0 hour	F50, Condition A; ASTM D-1693
Melt Flow	12 g/10 min	12 g/10 min	Exxon Method

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	48	48	ASTM D2240
Tensile Strength, Ultimate	9.00 MPa	1310 psi	ASTM D638
Elongation at Break	760 %	760 %	ASTM D638
Flexural Modulus	0.165 GPa	23.9 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	104 °C	219 °F	Exxon Method
Brittleness Temperature	<= -67.0 °C	<= -88.6 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.03	2.03	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	14.2 kV/mm	361 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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