

ExxonMobil Escorene® LD-400 LDPE Medium/High Voltage 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 resin designed for electrical applications. Applications: Base resin for medium voltage power cable insulation compounds.

Order this product through the following link:

http://www.lookpolymers.com/polymer_ExxonMobil-Escorene-LD-400-LDPE-MediumHigh-Voltage-Insulation-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	Exxon Method
Environmental Stress Crack Resistance	<= 1.0 hour	<= 1.0 hour	F50, Condition A; ASTM D-1693
Melt Flow	2.8 g/10 min	2.8 g/10 min	Exxon Method

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	45	45	ASTM D2240
Tensile Strength, Ultimate	9.60 MPa	1390 psi	ASTM D638
Elongation at Break	600 %	600 %	ASTM D638
Flexural Modulus	0.186 GPa	27.0 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	108 °C	226 °F	Exxon Method
Brittleness Temperature	<= -72.0 °C	<= -97.6 °F	ASTM D746

Electrical Properties	Metric	English	Comments
Dielectric Constant	2.25	2.25	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	20.4 kV/mm	518 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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