

ExxonMobil™ LDPE LD 419.MV

Low Density Polyethylene Resin

Product Description

ExxonMobil LD 419.MV is a LDPE designed for wire and cable applications and is suitable for making crosslinkable compounds for medium voltage insulation.

General

Applications	▪ Crosslinkable Compounds	▪ Wire and Cable Compounds
Form(s)	▪ Pellets	

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.921 g/cm ³	0.921 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	2.3 g/10 min	2.3 g/10 min	ASTM D1238
Peak Melting Temperature	228 °F	109 °C	ExxonMobil Method

Molded Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield	1700 psi	12 MPa	ASTM D638
Tensile Strength at Break	1500 psi	10 MPa	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Elongation at Break	630 %	630 %	ASTM D638
Flexural Modulus - 1% Secant	35000 psi	240 MPa	ASTM D790
Durometer Hardness			ASTM D2240
Shore A, 15 sec	90	90	
Shore D, 15 sec	44	44	

Electrical	Typical Value (English)	Typical Value (SI)	Test Based On
Volume Resistivity	7.6E+15 ohms·cm	7.6E+15 ohms·cm	ASTM D257
Dielectric Strength	1300 V/mil	50 kV/mm	ASTM D149
Dielectric Constant	2.3	2.3	ASTM D150
Dissipation Factor	8E-5	8E-5	ASTM D150

