

ExxonMobil LDPE

LD 157CW

Wire & Cable Resin

Description

LD 157CW is a medium density LDPE recommended for the production of Low Voltage power cable insulation, using the one-step silane cross-linking technology.

The grade contains a higher level of antioxidants.

Sufficient Cu-inhibitor should be added to meet specific ageing requirements.

Applications

- One-step silane cross-linkable Low Voltage power cable insulation
- Telecommunications cable insulation

Additive Package	Antiblock	Slip	Thermal Stabilizer
LD 157CW	No	No	Yes

Resin Properties	Test Based On	Typical Value / Unit	
Melt Index	ASTM D 1238	0.6 g/10 min	
Density	ExxonMobil Method	0.931 g/cm ³	
Peak Melting Temperature	ExxonMobil Method	115 °C	239 °F

Molded Properties¹

Flexural Modulus, 1% Secant	ASTM D 790	356 MPa	52000 psi
Tensile Strength at Yield	ASTM D 638	14 MPa	2030 psi
Tensile Strength at Break	ASTM D 638	16 MPa	2320 psi
Elongation at Yield	ASTM D 638	13 %	
Elongation at Break	ASTM D 638	550 %	
Shore Hardness – D (15s)	ASTM D 2240	54	
Volume Resistivity	ASTM D 257	6 * 10 ¹⁵ Ohm.cm	
Dielectric Constant (60 Hz)	ASTM D 150	2.20	
Dissipation Factor (60 Hz)	ASTM D 150	1.0 * 10 ⁻³	
Dielectric Strength (500V/sec)	ASTM D 149	59 V/µ	1490 V/mil

^{1.} Specimens were compression molded in accordance with ASTM D 4703.

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