

LyondellBasell Lupolen® 1812 D LDPE

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

Material Notes:

Insulation for cableData was collected by ISO methods and originally provided by BASF. The Lupolen® product line is now produced by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Lupolen-1812-D-LDPE.php

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in ³	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.010 %	0.010 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	9.00 MPa	1310 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	15.5 %	15.5 %	
Tensile Modulus	0.200 GPa	29.0 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	230 Âµm/m-Â°C @Temperature 20.0 Â°C	128 Âµin/in-Â°F @Temperature 68.0 Â°F	
Melting Point	108 Â°C	226 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	41.0 Â°C	106 Â°F	
Flammability, UL94	HB @Thickness 3.20 mm	HB @Thickness 0.126 in	
Oxygen Index	17 %	17 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	
	2.3	2.3	

Dielectric Constant Electrical Properties	Metric @Frequency 100 Hz	English @Frequency 100 Hz	Comments
	2.3	2.3	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.00020	0.00020	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	

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