

LyondellBasell Lupolen® 3821 D MDPE

Category : Polymer , Thermoplastic , Polyethylene (PE) , MDPE , Medium Density Polyethylene (MDPE), Molded

Material Notes:

Data 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-3821-D-MDPE.php

Physical Properties	Metric	English	Comments
Density	0.938 g/cc	0.0339 lb/in ³	
Water Absorption	0.010 %	0.010 %	
Melt Flow	0.285 g/10 min	0.285 g/10 min	
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	10 %	10 %	
Tensile Modulus	0.700 GPa	102 ksi	
Tensile Impact Strength	200 kJ/m ²	95.2 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	61.0 °C	142 °F	
Deflection Temperature at 1.8 MPa (264 psi)	38.0 °C	100 °F	
Vicat Softening Point	62.0 °C	144 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.400 mm	@Thickness 0.0157 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	

Electrical Properties <i>Dielectric Constant</i>	Metric	English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
	2.4	2.4	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	150 kV/mm	3810 kV/in	
Dissipation Factor	0.00020	0.00020	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.00020	0.00020	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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