

## LyondellBasell Lupolen® 1800 H LDPE, Injection Molding Grade

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

### Material Notes:

Injection moldingsData 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-1800-H-LDPE-Injection-Molding-Grade.php](http://www.lookpolymers.com/polymer_LyondellBasell-Lupolen-1800-H-LDPE-Injection-Molding-Grade.php)

Physical Properties	Metric	English	Comments
Density	0.919 g/cc	0.0332 lb/in <sup>3</sup>	
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 µm/m-°C	128 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	108 °C	226 °F	
Deflection Temperature at 0.46 MPa (66 psi)	41.0 °C	106 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.20 mm	@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	

## Contact Songhan Plastic Technology Co.,Ltd.

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