

LyondellBasell Lupolen® 4261 A HDPE, Blow Molding Grade

Categories: [Polymer](#); [Thermoplastic](#); [Polyethylene](#); [HDPE](#); [High Density Polyethylene \(HDPE\)](#); [Blow Molding Grade](#)

Material Notes: Easy-to-process bow molding grade for technical containers such as fuel tanks, petrol filler inlets, expansion tanks, horticultural spray tanks, tanks for lawnmowers, disposable containers (up to 1000 l), containers for transportation and storage, etc.

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

Key Words: High Density Polyethylene

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in³	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.010 %	0.010 %	
High Load Melt Index	0.10 g/10 min @Load 21.6 kg, Temperature 190 °C	0.10 g/10 min @Load 47.6 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.0 MPa	3480 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	10 %	10 %	
Tensile Modulus	0.850 GPa	123 ksi	
Tensile Impact Strength	260 kJ/m²	124 ft-lb/in²	
Tensile Creep Modulus, 1 hour	360 MPa	52200 psi	
Tensile Creep Modulus, 1000 hours	250 MPa	36300 psi	

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	
Dielectric Constant 	2.4 @Frequency 100 Hz	2.4 @Frequency 100 Hz	
	2.4 @Frequency 1e+6 Hz	2.4 @Frequency 1e+6 Hz	
Dielectric Strength	150 kV/mm	3810 kV/in	
Dissipation Factor 	0.00020 @Frequency 100 Hz	0.00020 @Frequency 100 Hz	
	0.00020 @Frequency 1e+6 Hz	0.00020 @Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

Thermal Properties	Metric	English	Comments
CTE, linear	170 µm/m-°C @Temperature 20.0 °C	94.4 µin/in-°F @Temperature 68.0 °F	Parallel
Melting Point	130 °C	266 °F	
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	
Vicat Softening Point	75.0 °C	167 °F	
Flammability, UL94	HB @Thickness 0.400 mm	HB @Thickness 0.0157 in	
Oxygen Index	17 %	17 %	

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.