

LyondellBasell Lupolen® 5261

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Relatively high viscosity blow molding grade for rigid, stackable and highly shock resistant containers for packaging all types of hazardous materials such as flammable, corrosive, poisonous and surface-active chemicals.

Physical Properties	Metric	English	Comments
Density	0.954 g/cc	0.0345 lb/in ³	
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	27.0 MPa	3920 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	9.0 %	9.0 %	
Tensile Modulus	1.20 GPa	174 ksi	
Tensile Impact Strength	300 kJ/m ²	143 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	430 MPa	62400 psi	
Tensile Creep Modulus, 1000 hours	290 MPa	42100 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	2.4	
	@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	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	145 µm/m-°C @Temperature 20.0 °C	80.6 µin/in-°F @Temperature 68.0 °F	
Melting Point	134 °C	273 °F	
Deflection Temperature at 0.46 MPa (66 psi)	75.0 °C	167 °F	
Deflection Temperature at 1.8 MPa (264 psi)	44.0 °C	111 °F	
Vicat Softening Point	80.0 °C	176 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
Oxygen Index	17 %	17 %	