

LyondellBasell Lupolen® 5261 ZS

Relatively high viscosity blow molding grade (similar to Lupolen 5261 Z), but more resistant to stress cracking) for rigid, stackable and highly shock resistant containers for packaging all types of hazardous materials.

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 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	26.0 MPa	3770 psi	
Elongation at Break	>= 50 %	>= 50 %	
Elongation at Yield	9.0 %	9.0 %	
Tensile Modulus	1.00 GPa	145 ksi	
Tensile Impact Strength	300 kJ/m ²	143 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	400 MPa	58000 psi	
Tensile Creep Modulus, 1000 hours	270 MPa	39200 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	155 µm/m-°C @Temperature 20.0 °C	86.1 µin/in-°F @Temperature 68.0 °F	
Melting Point	133 °C	271 °F	
Deflection Temperature at 0.46 MPa (66 psi)	74.0 °C	165 °F	
Deflection Temperature at 1.8 MPa (264 psi)	42.0 °C	108 °F	
Vicat Softening Point	78.0 °C	172 °F	
Flammability, UL94	HB	HB	
	@Thickness 0.400 mm	@Thickness 0.0157 in	
Oxygen Index	17 %	17 %	