

LyondellBasell Lupolen® 5361 A

Easy-to-process blow molding grade for stackable canisters (up to 60 l), used for packing surface-active liquids, laundry and dishwashing detergents, disinfectants, drums (up to 220 l) for various surface-active liquids and aggressive chemicals.

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	
Water Absorption	0.010 %	0.010 %	
Moisture Absorption at Equilibrium	0.010 %	0.010 %	
Melt Flow	0.10 g/10 min @Load 2.16 kg, Temperature 190 °C	0.10 g/10 min @Load 4.76 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	230 kJ/m ²	109 ft-lb/in ²	
Tensile Creep Modulus, 1 hour	380 MPa	55100 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 @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, Parallel to Flow

155 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$
@Temperature 20.0 $^\circ\text{C}$

86.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$
@Temperature 68.0 $^\circ\text{F}$

Melting Point

133 $^\circ\text{C}$

271 $^\circ\text{F}$

Deflection Temperature at 0.46 MPa (66 psi)

76.0 $^\circ\text{C}$

169 $^\circ\text{F}$

Deflection Temperature at 1.8 MPa (264 psi)

45.0 $^\circ\text{C}$

113 $^\circ\text{F}$

Vicat Softening Point

80.0 $^\circ\text{C}$

176 $^\circ\text{F}$

Flammability, UL94

HB
@Thickness 0.400 mm

HB
@Thickness 0.0157 in

Oxygen Index

17 %

17 %