

Covestro Bayblend® KL 1-1427 Polycarbonate/ABS Blend

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Glass fiber reinforced grade (30%) with high stiffness. Information provided by Bayer. As of 1 September 2015, Bayer Material Science was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-KL-1-1427-PolycarbonateABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	
Water Absorption	0.60 %	0.60 %	Saturation in water
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.60 %	0.60 %	

Mechanical Properties	Metric	English	Comments
Elongation at Break	2.0 %	2.0 %	
Tensile Modulus	8.00 GPa	1160 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 µm/m-°C	16.1 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	52.0 µm/m-°C	28.9 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	
Vicat Softening Point	131 °C	268 °F	
Flammability, UL94	HB	HB	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	24 %	24 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	>= 1.00e+15 ohm-cm	>= 1.00e+15 ohm-cm	

Electrical Properties	Metric 14 ohm	English 4 ohm	Comments
Dielectric Constant	3.0	3.0	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Constant	3.2	3.2	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0020	0.0020	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0090	0.0090	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	200 V	200 V	

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