Covestro Bayblend® KU 1-1446 Polycarbonate/ABS Blend

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

Material Notes:

Good cold impact strength and fuel resistance.Applications: Automotive industry (interior and body parts).Information provided by Bayer.As of 1 September 2015, Bayer MaterialScience 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-KU-1-1446-PolycarbonateABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in³	
Water Absorption	0.70 %	0.70 %	Saturation in water
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Equilibrium at 50% RH
Water Absorption at Saturation	0.70 %	0.70 %	
Melt Flow	5.0 g/10 min @Load 5.00 kg, Temperature 260 °C	5.0 g/10 min @Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	
Elongation at Break	>= 50 %	>= 50 %	Nominal
Elongation at Yield	45 %	45 %	
Tensile Modulus	1.90 GPa	276 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	85.0 µm/m-°C @Temperature 20.0 °C	47.2 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	90.0 µm/m-°C @Temperature 20.0 °C	50.0 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	119 °C	246 °F	
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	
Vicat Softening Point	118 °C	244 °F	
	HB	HB	

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	23 %	23 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	
Dielectric Constant	2.9 @Frequency 100 Hz	2.9 @Frequency 100 Hz	
	2.9 @Frequency 1e+6 Hz	2.9 @Frequency 1e+6 Hz	
Dielectric Strength	70.0 kV/mm	1780 kV/in	
Dissipation Factor	0.0040 @Frequency 100 Hz	0.0040 @Frequency 100 Hz	
	0.0070 @Frequency 1e+6 Hz	0.0070 @Frequency 1e+6 Hz	
Comparative Tracking Index	400 V	400 V	

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