

Covestro Bayblend® KU 2-1446 Polycarbonate + ABS Blend (discontinued **)

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

Material Notes:

Key Features: Unfilled, Platable, Suitable processing methods: Injection molding, Film extrusion, Profile extrusion, Sheet extrusion, Blow molding. Information provided by Bayer Polymers. As of 1 September 2015, Bayer Material Science was separated from Bayer AG and has officially adopted its new name – Covestro. This product was discontinued prior to the separation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-KU-2-1446-Polycarbonate-ABS-Blend-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	0.950 g/cc	0.0343 lb/in ³	Melt
	1.11 g/cc	0.0401 lb/in ³	
Water Absorption	0.70 %	0.70 %	
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.
Melt Flow	5.0 g/10 min	5.0 g/10 min	
	@Load 5.00 kg, Temperature 260 °C	@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	4.5 %	4.5 %	
Tensile Modulus	1.80 GPa	261 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
CTE, linear, Transverse to Flow	105 µm/m-°C	58.3 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Specific Heat Capacity	1.76 J/g-°C	0.421 BTU/lb-°F	Melt
Thermal Conductivity	0.152 W/m-K	1.05 BTU-in/hr-ft ² -°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	118 °C	244 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	118 °C	244 °F	50°C/h 50N
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	3.0	3.0	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	3.1	3.1	
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	
Dissipation Factor	0.0016	0.0016	
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0085	0.0085	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	175 V	175 V	

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection Molding
Mold Temperature	80.0 °C	176 °F	Injection Molding
Ejection Temperature	120 °C	248 °F	
Injection Velocity	240 mm/sec	9.45 in/sec	

Descriptive Properties	Value	Comments
Effective thermal diffusivity	0.91E-7 m ² /s	Melt

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