

Covestro Bayblend® KU 1-1446* Polycarbonate + ABS

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

Material Notes:

Developmental product Grade with improved low-temperature impact strength and petrol resistance for automotive parts in version BBS904 suitable for extrusion/extrusion blow molding and electroplating applications Vicat/B 120 temperature = 120 °C Preprocessing Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-KU-1-1446-Polycarbonate-ABS.php

Physical Properties	Metric	English	Comments
Density	1.11 g/cc	0.0401 lb/in ³	ISO 1183
	0.950 g/cc	0.0343 lb/in ³	Melt
	@Temperature 260 °C	@Temperature 500 °F	
Water Absorption	0.70 %	0.70 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Melt Flow	4.8 g/10 min	4.8 g/10 min	ISO 1133
	@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	ISO 527-1/-2
Elongation at Yield	4.5 %	4.5 %	ISO 527-1/-2
Tensile Modulus	1.80 GPa	261 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	95.0 µm/m-°C	52.8 µin/in-°F	ISO 11359-1/-2
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	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ISO 75-1/-2
Vicat Softening Point	118 °C	244 °F	50°C/h 50N; ISO 306

Thermal Properties	Metric	English	Comments
Flammability, UL94			IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	$\geq 1.00 \times 10^{13}$ ohm-cm	$\geq 1.00 \times 10^{13}$ ohm-cm	IEC 60093
Surface Resistance	$\geq 1.00 \times 10^{15}$ ohm	$\geq 1.00 \times 10^{15}$ ohm	IEC 60093
Dielectric Constant	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0025	0.0025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0085	0.0085	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	275 V	275 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	
	260 °C	500 °F	Injection Molding; ISO 294
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
	80.0 °C	176 °F	Injection Molding; ISO 10724
Ejection Temperature	120 °C	248 °F	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	North America	
Eff. thermal diffusivity (m ² /s)	9.1E-08	
Feature	Platable	

Release agent

Descriptive Properties	Value	Comments
Process	Blow Molding	
	Injection Molding	
	Profile Extrusion	
	Sheet Extrusion	
	Thermoforming	

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