

Covestro Bayblend® KU 2-1514 BBS073* Polycarbonate + ABS, Flame Retardant Grade

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

Material Notes:

Developmental product High heat resistant injection molding grade improved chemical resistance and stress cracking behavior compared to KU 2-1514 ball indentation temperature = 125 °C Vicat/B 120 temperature = 136 °C UL-listing 94 V-0 at 1.5 mm antimony-chlorine- and bromine-free flame retardants suitable for supporting life components Preprocessing Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-KU-2-1514-BBS073-Polycarbonate-ABS-Flame-Retardant-Grade.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
	1.01 g/cc	0.0365 lb/in ³	Melt
	@Temperature 260 °C	@Temperature 500 °F	
Water Absorption	0.50 %	0.50 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Melt Flow	15 g/10 min	15 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	57.0 MPa	8270 psi	ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	ISO 527-1/-2
Tensile Modulus	2.40 GPa	348 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	68.0 µm/m-°C	37.8 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	68.0 µm/m-°C	37.8 µin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	1.70 J/g-°C	0.406 BTU/lb-°F	Melt
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	126 °C	259 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °F	ISO 75-1/-2

Vicat Softening Point Thermal Properties	134 °C Metric	273 °F English	50°C/h 50N; ISO 306 Comments
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	5VB	5VB	IEC 60695-11-20
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	IEC 60093
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	IEC 60093
Dielectric Constant	3.1	3.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.2	3.2	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0080	0.0080	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	350 V	350 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	Injection Molding; ISO 294
	260 °C	500 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection Molding; ISO 10724
	80.0 °C	176 °F	
Ejection Temperature	140 °C	284 °F	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	

Descriptive Properties	Europe Value	Comments
	India	
	Near East/Africa	
	North America	
	South and Central America	
Eff. thermal diffusivity (m ² /s)	9.9E-08	
Feature	Heat stabilised or stable to heat	
	Release agent	
Form	Pellets	
Process	Injection Molding	

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