

Covestro Bayblend® FR 3010 Polycarbonate + ABS, Flame Retardant Grade

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

Material Notes:

Injection molding grade increased heat resistance Vicat/B 120 temperature = 110 °C UL-listing 94 V-0 (1.5 mm) antimony-, chlorine- and bromine-free flame retardant glow wire test (GWFI): 960 °C (2.0 mm) improved chemical resistance and stress cracking behaviors successor to FR 2010 Preprocessing Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR-3010-Polycarbonate-ABS-Flame-Retardant-Grade.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
	1.01 g/cc @Temperature 240 °C	0.0365 lb/in ³ @Temperature 464 °F	Melt
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 240 °C	@Load 11.0 lb, Temperature 464 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	76.0 µm/m-°C	42.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	1.61 J/g-°C	0.385 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)	100 °C	212 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	90.0 °C	194 °F	ISO 75-1/-2
Vicat Softening Point	108 °C	226 °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	
	5VB	5VB	IEC 60695-11-20
	@Thickness 2.00 mm	@Thickness 0.0787 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	3.1	3.1	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	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	0.0050	0.0050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0070	0.0070	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 °C	464 °F	Injection Molding; ISO 294
	240 - 270 °C	464 - 518 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	Injection Molding; ISO 10724
	80.0 °C	176 °F	
Ejection Temperature	110 °C	230 °F	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	

Descriptive Properties	Value	Comments
	Near East/Africa	
	South and Central America	
Eff. thermal diffusivity (m ² /s)	9.4E-08	
Feature	Release agent	
Form	Pellets	
Process	Injection Molding	

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