

Covestro Bayblend® FR 3000 HI Polycarbonate + ABS, Flame Retardant Grade

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

Material Notes:

Injection molding grade general purpose compared to FR 3000 improved chemical resistance and stress cracking behavior
Vicat/B 120 temperature = 97 °C
UL 94 V-0 at 1.5 mm
Preprocessing
Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR-3000-HI-Polycarbonate-ABS-Flame-Retardant-Grade.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	0.50 %	0.50 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62
Melt Flow	24 g/10 min @Load 5.00 kg, Temperature 240 °C	24 g/10 min @Load 11.0 lb, Temperature 464 °F	estimated from MVR using room temperature density; ISO 1133

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
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	ISO 75-1/-2
Vicat Softening Point	95.0 °C	203 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	IEC 60695-11-10
	5VB @Thickness 2.00 mm	5VB @Thickness 0.0787 in	IEC 60695-11-20

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	0.0050	0.0050	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0060	0.0060	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	
Injection Velocity	240 mm/sec	9.45 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	India	
	Near East/Africa	
	South and Central America	
Feature	Release agent	
Form	Pellets	

Descriptive Properties	Value	Comments
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