

Covestro Bayblend® FR 3021 Polycarbonate + ABS, Mineral Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

15 % mineral filled injection molding grade increased stiffness tensile modulus = 4800 MPa Vicat/B 120 temperature = 98 °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) no juicing As of 1 September 2015, Bayer Material Science was separated from Bayer AG and officially adopted its new name – Covestro.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-FR-3021-Polycarbonate-ABS-Mineral-Filled.php

Physical Properties	Metric	English	Comments
Density	1.28 g/cc	0.0462 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	17 g/10 min @Load 5.00 kg, Temperature 240 °C	17 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	65.0 MPa	9430 psi	ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	4.80 GPa	696 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
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)	85.0 °C	185 °F	ISO 75-1/-2
Vicat Softening Point	96.0 °C	205 °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

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
	3.0	3.0	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.1	3.1	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	
	0.0070	0.0070	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 °C	464 °F	Injection Molding; ISO 294
	240 - 270 °C	464 - 518 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °F	
	80.0 °C	176 °F	Injection Molding; ISO 10724
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	
Process	Injection Molding	

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