

Covestro Bayblend® FR 3001 Polycarbonate + ABS Blend

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

Material Notes:

Key Features: Flame retarding agent Unfilled Flame retardant Suitable processing methods: Injection molding Information provided by Bayer Polymers. 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-3001-Polycarbonate-ABS-Blend.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in ³	
Water Absorption	0.40 %	0.40 %	
Moisture Absorption at Equilibrium	0.20 %	0.20 %	23°C/50% R.H.
Melt Flow	25 g/10 min @Load 5.00 kg, Temperature 240 °C	25 g/10 min @Load 11.0 lb, Temperature 464 °F	cm ³ /10 min.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	60.0 MPa	8700 psi	
Elongation at Break	30 %	30 %	Nominal
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	2.70 GPa	392 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	78.0 µm/m-°C @Temperature 20.0 °C	43.3 µin/in-°F @Temperature 68.0 °F	
CTE, linear, Transverse to Flow	80.0 µm/m-°C @Temperature 20.0 °C	44.4 µin/in-°F @Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	
Deflection Temperature at 1.8 MPa (264 psi)	85.0 °C	185 °F	
Vicat Softening Point	101 °C	214 °F	50°C/h 50N
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	UL Recognized

Thermal Properties	^{EVA} Metric	^{EVA} English	Comments ^{UL Recognized}
	@Thickness 3.00 mm	@Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	>= 1.00e+13 ohm-cm	>= 1.00e+13 ohm-cm	
Surface Resistance	>= 1.00e+15 ohm	>= 1.00e+15 ohm	
Dielectric Constant	3.1	3.1	
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.1	3.1	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	
Dissipation Factor	0.0050	0.0050	
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0070	0.0070	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	300 V	300 V	

Processing Properties	Metric	English	Comments
Melt Temperature	240 °C	464 °F	Injection Molding
Mold Temperature	80.0 °C	176 °F	Injection Molding
Injection Velocity	240 mm/sec	9.45 in/sec	

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