

Covestro Bayblend® T88 GF-10* Polycarbonate + SAN Glass Filled Impact Grade

Category : Polymer , Thermoplastic , Polycarbonate (PC) , SAN Polymer

Material Notes:

Developmental product Injection molding grade 10 % GF optimized heat ageing- and UV-stability very good flow tensile modulus = 5100 MPa Vicat/B 120 = 134 °C Preprocessing Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-T88-GF-10-Polycarbonate-SAN-Glass-Filled-Impact-Grade.php

Physical Properties	Metric	English	Comments
Density	1.23 g/cc	0.0444 lb/in ³	ISO 1183
	1.02 g/cc	0.0368 lb/in ³	Melt
	@Temperature 260 °C	@Temperature 500 °F	
Water Absorption	0.60 %	0.60 %	Similar to ISO 62
Moisture Absorption at Equilibrium	0.20 %	0.20 %	Similar to ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527-1/-2
Elongation at Break	3.7 %	3.7 %	ISO 527-1/-2
Tensile Modulus	5.10 GPa	740 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	38.0 µm/m-°C	21.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	62.0 µm/m-°C	34.4 µin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	1.65 J/g-°C	0.394 BTU/lb-°F	Melt
Thermal Conductivity	0.155 W/m-K	1.08 BTU-in/hr-ft ² -°F	Melt
Deflection Temperature at 0.46 MPa (66 psi)	134 °C	273 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °F	ISO 75-1/-2
Vicat Softening Point	132 °C	270 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 0.900 mm	@Thickness 0.0354 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	2.9	2.9	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	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	0.0025	0.0025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0095	0.0095	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	200 V	200 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	80.0 °C	176 °F	Injection Molding; ISO 10724
	70.0 - 100 °C	158 - 212 °F	
Ejection Temperature	130 °C	266 °F	
Injection Velocity	540 mm/sec	21.3 in/sec	ISO 294

Descriptive Properties	Value	Comments
Availability	Asia Pacific	
	Europe	
	India	
	Near East/Africa	
	South and Central America	
Eff. thermal diffusivity (m ² /s)	9.18E-08	

Descriptive Properties	Value	Comments
	Heat stabilised or stable to heat	
	Release agent	
Form	Pellets	
Process	Injection Molding	

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