

Covestro Bayblend® T88-2N Polycarbonate + ABS, 10% Glass Filled

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Glass Fiber Filled , Polycarbonate (PC)

Material Notes:

Injection molding grade 10 % glass fiber filled tensile modulus = 3900 MPa Vicat/B 120 temperature = 131 °C Preprocessing Max. Water content

Order this product through the following link:

http://www.lookpolymers.com/polymer_Covestro-Bayblend-T88-2N-Polycarbonate-ABS-10-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 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	63.0 MPa	9140 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	3.90 GPa	566 ksi	ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 µm/m-°C	23.3 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	1.65 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)	130 °C	266 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	ISO 75-1/-2
Vicat Softening Point	129 °C	264 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	

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	3.2	3.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	3.3	3.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0025	0.0025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0085	0.0085	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	175 V	175 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 280 °C	464 - 536 °F	
	260 °C	500 °F	Injection Molding; ISO 294
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	North America	
Eff. thermal diffusivity (m ² /s)	9.18E-08	
Feature	Heat stabilised or stable to heat	
	Release agent	
Form	Pellets	
Process	Injection Molding	

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