

Covestro Bayblend® T88 GF-30 Rubber Modified PC Blend, 31% Glass Filled

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 30% Glass Filled

Material Notes:

Main characteristics:• High toughness even at low temperatures• High dimensional accuracy and stability• Good paintability• Good flowability
Grade characteristics:• Rubber modified PC blend; 31% glass fiber filled• Injection molding
As of 1 September 2015, Bayer MaterialScience 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-T88-GF-30-Rubber-Modified-PC-Blend-31-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.375 g/cc	0.04968 lb/in ³	ISO 1183-1
Moisture Absorption at Equilibrium	0.10 %	0.10 %	ISO 62, 50% RH
Water Absorption at Saturation	0.40 %	0.40 %	ISO 62
Viscosity	250000 cP @Shear Rate 1000 1/s, Temperature 260 °C	250000 cP @Shear Rate 1000 1/s, Temperature 500 °F	melt viscosity; b.o. ISO 11443-A
Linear Mold Shrinkage, Flow	0.0015 - 0.0035 cm/cm @Thickness 3.00 mm	0.0015 - 0.0035 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm @Thickness 3.00 mm	0.0030 - 0.0050 in/in @Thickness 0.118 in	150x105x3mm; b.o. ISO 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	135 MPa	19600 psi	5 mm/min; ISO 527-1,-2
Elongation at Break	2.0 %	2.0 %	5 mm/min; ISO 527-1,-2
Tensile Modulus	10.0 GPa	1450 ksi	1 mm/min; ISO 527-1,-2
Izod Impact, Notched (ISO)	11.0 kJ/m ² @Temperature -30.0 °C	5.23 ft-lb/in ² @Temperature -22.0 °F	ISO 180-A
	12.0 kJ/m ² @Temperature 23.0 °C	5.71 ft-lb/in ² @Temperature 73.4 °F	ISO 180-A
Izod Impact, Unnotched (ISO)	40.0 kJ/m ² @Temperature 23.0 °C	19.0 ft-lb/in ² @Temperature 73.4 °F	ISO 180-U
	40.0 kJ/m ² @Temperature -30.0 °C	19.0 ft-lb/in ² @Temperature -22.0 °F	ISO 180-U

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	25.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	13.9 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 $^{\circ}\text{C}$	@Temperature 73.4 - 131 $^{\circ}\text{F}$	
CTE, linear, Transverse to Flow	60.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	33.3 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-1,-2
	@Temperature 23.0 - 55.0 $^{\circ}\text{C}$	@Temperature 73.4 - 131 $^{\circ}\text{F}$	
Deflection Temperature at 0.46 MPa (66 psi)	134 $^{\circ}\text{C}$	273 $^{\circ}\text{F}$	ISO 75-1,-2
Deflection Temperature at 1.8 MPa (264 psi)	126 $^{\circ}\text{C}$	259 $^{\circ}\text{F}$	ISO 75-1,-2
Vicat Softening Point	132 $^{\circ}\text{C}$	270 $^{\circ}\text{F}$	50 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
	134 $^{\circ}\text{C}$	273 $^{\circ}\text{F}$	120 $^{\circ}\text{C}/\text{h}$; ISO 306
	@Load 5.10 kg	@Load 11.2 lb	
Flammability, UL94	HB	HB	
	@Thickness 0.850 mm	@Thickness 0.0335 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	IEC 60093
Surface Resistance	1.00e+17 ohm	1.00e+17 ohm	IEC 60093
Dielectric Constant	3.4	3.4	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.0030	0.0030	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	Solution A; IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	260 °C	500 °F	Injection molding; ISO 294
Mold Temperature	80.0 °C	176 °F	Injection molding; ISO 294
Injection Velocity	540 mm/sec	21.3 in/sec	ISO 294

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