

**Bayblend® T88 GF-10 HI**

 Covestro - Polycarbonates - *Polycarbonate + SAN*
**General Information**
**Product Description**

Rubber modified (PC+SAN) blend; 10% glass fibre reinforced; Vicat/B 120 temperature = 130 °C; very good flow; improved impact strength; improved elongation at break; for demanding applications in the automotive interior

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight
Features	• Good Flow
Uses	• Automotive Applications • Automotive Interior Parts

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.22	g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	16	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 500°F, 0.0787 in	0.40 to 0.60	%	
Flow : 500°F, 0.0787 in	0.40 to 0.60	%	
Water Absorption (Saturation, 73°F)	0.50	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	624000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	8700	psi	ISO 527-2/5
Tensile Stress (Break, 73°F)	6090	psi	ISO 527-2/5
Tensile Strain (Yield, 73°F)	4.2	%	ISO 527-2/5
Tensile Strain (Break, 73°F)	10	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-22°F	2.9	ft·lb/in <sup>2</sup>	
73°F	6.7	ft·lb/in <sup>2</sup>	
Unnotched Izod Impact Strength			ISO 180
-22°F	21	ft·lb/in <sup>2</sup>	
73°F	29	ft·lb/in <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	266	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	237	°F	ISO 75-2/A
Vicat Softening Temperature			
--	266	°F	ISO 306/B120
--	262	°F	ISO 306/B50
CLTE - Flow (73 to 131°F)	2.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	4.2E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (73°F)	1.0E+16	ohms·cm	IEC 60093
Electric Strength (73°F, 0.0394 in)	910	V/mil	IEC 60243-1
Relative Permittivity			IEC 60250
73°F, 100 Hz	3.30		



73°F, 1 MHz	3.20	
Dissipation Factor		IEC 60250
73°F, 100 Hz	3.1E-3	
73°F, 1 MHz	0.013	
Comparative Tracking Index (Solution A)	175 V	IEC 60112
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Flame Rating (0.03 in)	HB	UL 94
<b>Fill Analysis</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Melt Viscosity <sup>3</sup> (500°F)	215 Pa·s	ISO 11443-A

### Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature - Dry Air Dryer	203 to 230	°F
Drying Time - Dry Air Dryer	4.0	hr
Suggested Max Moisture	< 0.020	%
Suggested Shot Size	30 to 70	%
Rear Temperature	446 to 464	°F
Middle Temperature	455 to 473	°F
Front Temperature	464 to 518	°F
Nozzle Temperature	509 to 527	°F
Processing (Melt) Temp	500 to 536	°F
Mold Temperature	158 to 212	°F
Back Pressure	725 to 2180	psi
Vent Depth	9.8E-4 to 3.0E-3	in

#### Injection Notes

Peripheral Screw Speed: 0.05 - 0.2 m/s  
Standard Melt Temperature: 270°C  
Hold Pressure (% of Injection Pressure): 50 - 75%

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60x60x2mm, MT 80°C

<sup>3</sup> 1000s-1

