

Bayblend® T88 GF-10

Standard grades / Glass fiber reinforced

Rubber modified (PC+SAN) blend; 10% glass fibre reinforced; Vicat/B 120 temperature = 134 °C; optimized heat ageing- and UV-stability; very good flow; tensile modulus = 4800 MPa;; good heat resistance

ISO Shortname

PC+SAN-I-GF10

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
C Melt volume-flow rate	260 °C; 5 kg	cm ³ /10 min	ISO 1133	16
Melt viscosity	1000 s ⁻¹ ; 260 °C	Pa·s	b.o. ISO 11443-A	205
Molding shrinkage, parallel	150x105x3 mm; 260 °C / MT 80 °C	%	b.o. ISO 2577	0.25 - 0.45
Molding shrinkage, normal	150x105x3 mm; 260 °C / MT 80 °C	%	b.o. ISO 2577	0.35 - 0.55
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	4800
Yield stress	5 mm/min	MPa	ISO 527-1,-2	100
Yield strain	5 mm/min	%	ISO 527-1,-2	3.2
C Stress at break	5 mm/min	MPa	ISO 527-1,-2	95
C Strain at break	5 mm/min	%	ISO 527-1,-2	3.7
Izod impact strength	23 °C	kJ/m ²	ISO 180-U	35
Izod impact strength	-30 °C	kJ/m ²	ISO 180-U	35
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-A	8.0
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-A	6.0
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	121
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	133
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	132
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	134
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.4
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.67
C Burning behavior UL 94 [UL recognition]	0.85 mm	Class	UL 94	HB
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	3.2
C Relative permittivity	1 MHz	-	IEC 60250	3.0
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	25
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	90
C Volume resistivity		Ohm·m	IEC 60093	1E14
C Surface resistivity		Ohm	IEC 60093	1E16
C Electrical strength	1 mm	kV/mm	IEC 60243-1	35
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	200
Other properties (23 °C)				
C Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.4
C Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.2
C Density		kg/m ³	ISO 1183-1	1220
Glass fiber content	Method A	%	b.o. ISO 3451-1	10
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	260
C Injection molding-Mold temperature		°C	ISO 294	80
C Injection molding-Injection velocity		mm/s	ISO 294	540

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

