Bayblend T88 GF-10

Standard grades / Glass fiber reinforced

Rubber modified (PC+SAN) blend; 10 % glass fiber filled; injection molding grade; optimized heat ageing- and UV-stability; very good flow; tensile modulus = 4800 MPa; high heat resistance; Vicat/B 120 = 134 °C.

ISO Shortname

	Property	Test Condition	Unit	Standard	Value
Rheological properties					
	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
	Melt viscosity	1000 s^{-1}; 260 °C	Pa·s	b.o. ISO 11443-A	205
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/m²	ISO 180-U	35
	Izod impact strength	-30 °C	kJ/m²	ISO 180-U	35
	Izod notched impact strength	23 °C	kJ/m²	ISO 180-A	8.0
	Izod notched impact strength	-30 °C	kJ/m²	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/m³	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.

Impact properties: N = non-break, P = partial break, C = complete break

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Disclaimer

Information Impact properties

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General

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