



Bayblend T88-4N

Standard grades / Glass fiber reinforced

20 % glass fiber filled; tensile modulus = 5900 MPa; Vicat/B 120 temperature = 134 °C.

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Spiral flow length	260 °C; 2 x 8.7 mm	mm	Bayer test	280
Molding shrinkage, parallel	150x105x3; 260 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.2 - 0.4
Molding shrinkage, normal	150x105x3; 260 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.3 - 0.6
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	5900
Yield stress	5 mm/min	MPa	ISO 527-1,-2	77
Yield strain	5 mm/min	%	ISO 527-1,-2	2
C Stress at break	5 mm/min	MPa	ISO 527-1,-2	77
C Strain at break	5 mm/min	%	ISO 527-1,-2	2
Izod impact strength	23 °C	kJ/m²	ISO 180-1U	20
Izod impact strength	-30 °C	kJ/m²	ISO 180-1U	20
Izod notched impact strength	23 °C	kJ/m²	ISO 180-1A	9
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-1A	8
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	122
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	134
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	0.3
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.8
C Burning behavior UL 94 [UL recognition]	1.1 mm	Class	UL 94	HB
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	3.3
C Relative permittivity	1 MHz	-	IEC 60250	3.2
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	25
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	85
C Volume resistivity		Ohm·m	IEC 60093	1E14
C Surface resistivity		Ohm	IEC 60093	1E16
C Electric strength	1 mm	kV/mm	IEC 60243-1	35
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	175
Other properties (23 °C)				
C Water absorption (Saturation value)	Water at 23 °C	%	ISO 62	0.6
C Water absorption (Equilibrium value)	23 °C; 50 % RH	%	ISO 62	0.2
C Density		kg/m³	ISO 1183	1250
Glass fiber content		%	ISO 3451-1	20
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.

