



Bayblend T88-2N

General purpose grades / Glass fiber reinforced

10 % glass fiber filled; tensile modulus = 3900 MPa; Vicat/B 120 temperature = 131 °C.

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Rheological properties				
Molding shrinkage, parallel	500 bar	in/in	ASTM D 955	0.0035-0.0055
Molding shrinkage, normal	500 bar	in/in	ASTM D 955	0.0035-0.0055
Mechanical properties (23 °C/50 % r.h.)				
Tensile modulus	1 mm/min	lb/in ²	ASTM D 638	566000
Tensile stress at yield	-	lb/in ²	ASTM D 638	9400
Tensile elongation at yield	-	%	ASTM D 638	3
Tensile stress at break	-	lb/in ²	ASTM D 638	9100
Tensile elongation at break	-	%	ASTM D 638	4
Izod notched impact strength	73 °F, 0.125 in	ft-lb/in	ASTM D 256	1.5
Flexural modulus	-	lb/in ²	ASTM D 790	580000
Flexural stress at 5 % strain	-	lb/in ²	ASTM D 790	16000
Thermal properties				
Deflection temperature under load, Unannealed	264 psi; 0.250 in	°F	ASTM D 648	240
Deflection temperature under load, Unannealed	66 psi; 0.250 in	°F	ASTM D 648	257
Vicat softening temperature	Rate B; 5 kg; 120 °C/h	°F	ASTM D 1525	268
Coefficient of linear thermal expansion, flow/cross-flow	-	in/in/°F	ISO 11359-1,-2	2.3E-5
UL94 Flame Class	Thickness tested: 1.5 mm	Class	UL 94	HB
Electrical properties (23 °C/50 % r.h.)				
Relative permittivity	100 Hz	-	IEC 60250	3.3
Relative permittivity	1 MHz	-	IEC 60250	3.2
Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	25
Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	85
Volume resistivity	-	Ohm·m	IEC 60112	1.0 E14
Surface resistivity	-	Ohm	IEC 60093	1.0 E16
Dielectric strength	-	kV/mm	IEC 60243-1	35
Comparative tracking index CTI	Solution A	Rating	IEC 60112	175
Other properties (23 °C)				
Water absorption	73 °F; immersion to saturation; 0.125 in	%	ISO 62	0.6
Water absorption	73 °F, 50% RH in air to saturation, 0.125-in	%	ISO 62	0.2
Density	-	kg/m ³	ASTM D 792	1200
Glass fiber / glass bead / filler content	-	%	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

