

Bayblend® FR3310 TV

FR grades / 15 % Glass fiber reinforced

(PC+ABS)-Blend; 15% glass fibre reinforced; flame retardant; Vicat/B 120 temperature = 100 °C; UL recognition 94V-1 at 1.2 mm and V-0 at 1.5 mm

ISO Shortname

PC+ABS-GF15-FR(40)

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
C Melt volume-flow rate	260 °C; 5 kg	cm ³ /10 min	ISO 1133	23
Melt viscosity	1000 s ⁻¹ ; 260 °C	Pa·s	b.o. ISO 11443-A	185
Molding shrinkage, parallel	150x105x3 mm; 240 °C / MT 80 °C	%	b.o. ISO 2577	0.2-0.4
Molding shrinkage, normal	150x105x3 mm; 240 °C / MT 80 °C	%	b.o. ISO 2577	0.3-0.5
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	5300
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
Izod impact strength		kJ/m ²	ISO 180-U	30
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-A	8
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	92
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	98
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	98
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	100
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	0.7
C Burning behavior UL 94 (1.5 mm) [UL recognition]		Class	UL 94	V-0
C Burning behavior UL 94 [UL recognition]	1.2 mm	Class	UL 94	V-1
C Burning behavior UL 94-5V	2.0 mm	Class	UL 94	5VA
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	3.2
C Relative permittivity	1 MHz	-	IEC 60250	3.1
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	50
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	70
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	175
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	0.1
C Density		kg/m ³	ISO 1183-1	1280
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	240

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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Typical value

These values are typical values only. Unless explicitly agreed in written form, the do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

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Disclaimer Non Medical Grade

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