

Bayblend® T90 XF

Standard grades / Non reinforced

(PC+ABS)-Blend; Vicat/B 120 temperature = 132 °C; good balance of melt flow, impact strength and stress cracking resistance

ISO Shortname

PC+ABS

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
C Melt volume-flow rate	260 °C; 5 kg	cm ³ /10 min	ISO 1133	12
Melt viscosity	1000 s ⁻¹ ; 260 °C	Pa·s	b.o. ISO 11443-A	260
C Molding shrinkage, parallel	60x60x2 mm; 260 °C / MT 80 °C	%	ISO 294-4	0.6-0.8
C Molding shrinkage, normal	60x60x2 mm; 260 °C / MT 80 °C	%	ISO 294-4	0.6-0.8
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2200
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	53
C Yield strain	50 mm/min	%	ISO 527-1,-2	5.1
Stress at break	50 mm/min	MPa	ISO 527-1,-2	56
Strain at break	50 mm/min	%	b.o. ISO 527-1,-2	> 50
Izod impact strength	23 °C	kJ/m ²	ISO 180-U	N
Izod impact strength	-30 °C	kJ/m ²	ISO 180-U	N
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-A	55
Izod notched impact strength	-30 °C	kJ/m ²	ISO 180-A	45
C Puncture energy	23 °C	J	ISO 6603-2	44
C Puncture energy	-30 °C	J	ISO 6603-2	50
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	107
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	129
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	130
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	132
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.7
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.75
Electrical properties (23 °C/50 % r. h.)				
C Relative permittivity	100 Hz	-	IEC 60250	3.0
C Relative permittivity	1 MHz	-	IEC 60250	2.9
C Dissipation factor	100 Hz	10 ⁻⁴	IEC 60250	25
C Dissipation factor	1 MHz	10 ⁻⁴	IEC 60250	95
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	0.6
C Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.2
C Density		kg/m ³	ISO 1183-1	1140
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.





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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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