

Bayblend® FR3023

/ (PC+ABS)-Blend; 23% mineral filled; flame retardant; Vicat/B 120 temperature = 102 °C; high flow for thin wall application; UL recognition 94 V-0 at 1.2 mm

ISO Shortname

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
C Melt volume-flow rate	260 °C; 5 kg	cm³/10 min	ISO 1133	24
Melt viscosity	1000 s⁻¹; 260 °C	Pa·s	b.o. ISO 11443-A	220
Molding shrinkage, parallel/normal	Value range based on general practical experience	%	b.o. ISO 2577	0.2-0.3
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	5400
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	62
C Yield strain	50 mm/min	%	ISO 527-1,-2	3,2
Stress at break	50 mm/min	MPa	ISO 527-1,-2	48
Strain at break	50 mm/min	%	b.o. ISO 527-1,-2	6
Izod impact strength	23 °C	kJ/m²	ISO 180-U	52 C
Izod notched impact strength	23 °C	kJ/m²	ISO 180-A	6 C
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	88
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	96
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	99
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	102
C Burning behavior UL 94 [UL recognition]	1.2 mm	Class	UL 94	V-0
Glow wire test (GWFI)	1.0 mm	°C	IEC 60695-2-12	850
Electrical properties (23 °C/50 % r. h.)				
C Volume resistivity		Ohm·m	IEC 60093	1E15
C Surface resistivity		Ohm	IEC 60093	1E16
Other properties (23 °C)				
C Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.5
C Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.2
C Density		kg/m³	ISO 1183-1	1370
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, they 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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