

Bayblend® FR3021 GR

FR grades / Mineral filled

(PC+ABS)-Blend; 15 % mineral filled; with 30 % post consumer recycle - water bottle content; flame retardant; Vicat/B 120 temperature = 97 °C; increased stiffness; tensile modulus = 4600 MPa; UL recognition 94 V-0 at 1.5 mm

ISO Shortname

PC+ABS-TD15 FR(40)

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
C Melt volume-flow rate	240 °C/ 5 kg	cm ³ /10 min	ISO 1133	9
Melt viscosity	260 °C	Pa·s	b.o. ISO 11443-A	211
Molding shrinkage, parallel/normal	Value range based on general practical experience	%	b.o. ISO 2577	0.2-0.4
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	4600
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	66
C Yield strain	50 mm/min	%	ISO 527-1,-2	2.9
Stress at break	50 mm/min	MPa	ISO 527-1,-2	41
Strain at break	50 mm/min	%	b.o. ISO 527-1,-2	4
Izod impact strength	23 °C	kJ/m ²	ISO 180-U	70
Izod notched impact strength	23 °C	kJ/m ²	ISO 180-A	7
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	84
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	92
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	97
C Burning behavior UL 94 (1.5 mm) [UL recognition]	1.5 mm	Class	UL 94	V-0
Electrical properties (23 °C/50 % r. h.)				
C Volume resistivity		Ohm·m	IEC 60093	1E14
C Surface resistivity		Ohm	IEC 60093	1E16
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183-1	1290
Processing conditions for test specimens				
C Injection molding-Melt temperature		°C	ISO 294	240
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