

Bayblend DP FR 3006

FR grades / Non reinforced

Injection molding grade; Vicat/B 120 = 110 °C; UL-listing 94 V-1 at 1.5 mm; antimony-, chlorine- and bromine-free flame retardant.

ISO Shortname

Property	Test Condition	Unit	Standard	Value
Rheological properties				
C Melt volume-flow rate	240 °C; 5 kg	cm ³ /(10 min)	ISO 1133	25
Molding shrinkage, parallel	150x105x3; 240 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.4 - 0.6
Molding shrinkage, normal	150x105x3; 240 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.4 - 0.6
Mechanical properties (23 °C/50 % r. h.)				
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2700
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	65
C Yield strain	50 mm/min	%	ISO 527-1,-2	4.0
Stress at break	50 mm/min	MPa	ISO 527-1,-2	50
Strain at break	50 mm/min	%	acc. ISO 527-1,-2	> 50
Izod notched impact strength	23 °C	kJ/m ²	ISO 180/A	12
Thermal properties				
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	91
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	101
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	108
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	110
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.66
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 ⁻⁴ /K	ISO 11359-1,-2	0.66
C Burning behavior UL 94 (1.5 mm) [UL recognition]	1.5 mm	Class	UL 94	V-1
C Burning behavior UL 94 [UL recognition]	2.0 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
C Electrical strength	1 mm	kV/mm	IEC 60243-1	35
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	300
Other properties (23 °C)				
C Density		kg/m ³	ISO 1183	1180
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.