Bayblend DP FR 3011

/ Injection molding grade; high heat resistance; Vicat/B 120 temperature = 118 °C; UL-listing 94 V-0 (1.5 mm); antimony-, chlorine- and bromine-free flame retardant; glow wire test (GWFI): 960 °C (2.0 mm); no juicing; good light stability.

ISO Shortname

	Property	Test Condition	Unit	Standard	Value
Rheological properties					
C	Melt volume-flow rate	240 °C; 5 kg	cm³/(10 min)	ISO 1133	17
	Molding shrinkage, parallel	150x105x3; 240 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.5 - 0.7
	Molding shrinkage, normal	150x105x3; 240 °C / MT 80 °C; 500 bar	%	acc. ISO 2577	0.5 - 0.7
Mechanical properties (23 °C/50 % r. h.)					
C	Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	2600
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/m²	ISO 180/A	12
Thermal properties					
C	Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	98
C	Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	108
C	Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	116
	Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	118
C	Burning behavior UL 94 (1.5 mm) [UL recognition]	1.5 mm	Class	UL 94	V-0
C	Burning behavior UL 94-5V [UL recognition]	2.0 mm	Class	UL 94	5VB
	Burning behavior UL 94-5V [UL recognition]	3.0 mm	Class	UL 94	5VA
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 % RH	%	ISO 62	0.2
C	Density		kg/m³	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.