

Bayblend® FR3010 HF

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

Previous name Bayblend FR2010; (PC+ABS) blend; unreinforced; flame-retardant; injection molding grade; easy-flow grade; Vicat/B 120 temperature = 108 °C; UL recognition 94 V-0 (1.5 mm); glow wire test (GWFI): 960 °C (2.0 mm); optimized processability; good light stability.

General Information			
UL YellowCard	E41613-268915	E41613-232955	
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Flow		
	Good Processability		
	Good UV Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.18	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/5.0 kg)	25.0	cm³/10min	ISO 1133
Spiral Flow	40.0	cm	Internal Method
Molding Shrinkage ¹			ISO 2577
Across Flow : 240°C, 3.00 mm	0.50 to 0.70	%	
Flow : 240°C, 3.00 mm	0.50 to 0.70	%	
Water Absorption			ISO 62
Saturation, 23°C	0.50	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2700	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	60.0	MPa	
Break, 23°C	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.0	%	
Break, 23°C	> 50	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	10	kJ/m²	
23°C	35	kJ/m²	
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	100	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	106	°C	ISO 306/B50
--	108	°C	ISO 306/B120
CLTE			
Flow : 23 to 55°C	7.6E-5	cm/cm/°C	
Transverse : 23 to 55°C	8.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.20		
23°C, 1 MHz	3.10		
Dissipation Factor			IEC 60250
23°C, 100 Hz	4.0E-3		
23°C, 1 MHz	7.0E-3		
Comparative Tracking Index (Solution A)	350	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.50 mm	V-0		
2.20 mm	5VB		
3.00 mm	5VA		
NOTE			
1.	150x105x3 mm, 80°C MT		

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