Bayblend® FR3010

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; unreinforced; flame-retardant; injection molding grade; increased heat resistance; Vicat/B 120 temperature = 110 °C; UL recognition 94 V-0 (1.5 mm); glow wire test (GWFI): 960 °C (2.0 mm); improved chemical resistance and stress cracking behavior; successor to FR2010.

General Information			
UL YellowCard	E41613-268915		
Additive	Flame Retardant		
Features	Flame Retardant Good Chemical Resistance High ESCR (Stress Crack Resist.) Medium Heat 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)	15.0	cm³/10min	ISO 1133
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			
--	108	°C	ISO 306/B50
--	110	°C	ISO 306/B120
CLTE			ISO 11359-2
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	5.0E-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		
2.00 mm	5VB		
3.00 mm	5VA		
Fill Analysis	**Nominal Value**	**Unit**	**Test Method**
Melt Viscosity [2] (260°C)	245	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

Recommended distributors for this material

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