Bayblend® FR3310 TV

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; 15% glass fibre reinforced; flame-retardant; injection molding grade; Vicat/B 120 = 100 °C; UL recognition 94 V-1 at 1.2 mm and V-0 at 1.5 mm.

General Information			
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.28	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	23.0	cm³/10min	ISO 1133
Molding Shrinkage [1]			ISO 2577
Across Flow : 240°C, 3.00 mm	0.30 to 0.50	%	
Flow : 240°C, 3.00 mm	0.20 to 0.40	%	
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.10	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	5300	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	3.0	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (23°C)	8.0	kJ/m²	ISO 180/A
Unnotched Izod Impact Strength (23°C)	30	kJ/m²	ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	98.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	92.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	98.0	°C	ISO 306/B50
--	100	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	4.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	7.0E-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)	175	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.20 mm	V-1		
1.50 mm	V-0		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity [2] (260°C)	185	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

Recommended distributors for this material

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