Bayblend® T50 XF

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; unreinforced; injection molding grade; Vicat/B 120 = 115 °C; excellent flow; good low temperature impact strength.

General Information			
UL YellowCard	E41613-100058761		
Features	Good liquidity Low temperature impact resistance		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.11	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	19.0	cm³/10min	ISO 1133
Molding Shrinkage [1]			ISO 2577
Vertical flow direction: 260°C, 3.00mm	0.55 - 0.75	%	ISO 2577
Flow direction: 260°C, 3.00mm	0.55 - 0.75	%	ISO 2577
Water Absorption			ISO 62
Saturated, 23°C	0.70	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (23°C)	2100	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	50.0	MPa	ISO 527-2/50
Fracture, 23°C	46.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.5	%	ISO 527-2/50
Fracture, 23°C	> 50	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ISO 180/A
-30°C	38	kJ/m²	ISO 180/A
23°C	45	kJ/m²	ISO 180/A
Unnotched Izod Impact Strength			ISO 180
-30°C	No Break		ISO 180
23°C	No Break		ISO 180
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			

0.45 MPa, not annealed	120	°C	ISO 75-2/B
1.8 MPa, not annealed	99.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	113	°C	ISO 306/B50
--	115	°C	ISO 306/B120
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 55°C	8.5E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C	8.5E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms·cm	IEC 60093
Dielectric Strength (23°C, 1.00 mm)	40	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.10		IEC 60250
23°C, 1 MHz	3.00		IEC 60250
Dissipation Factor			IEC 60250
23°C, 100 Hz	2.5E-3		IEC 60250
23°C, 1 MHz	9.0E-3		IEC 60250
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.850 mm, Bayer Test)	HB		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity [2] (260°C)	190	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

Recommended distributors for this material

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