

Bayblend® T90 XF

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; non-reinforced; injection molding; Vicat B120 = 132°C; good balance of melt flow, impact strength and stress cracking resistance.

General Information			
Features	Good Flow		
	Good Impact Resistance		
	High ESCR (Stress Crack Resist.)		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.14	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	12.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 294-4
Across Flow : 260°C, 2.00 mm	0.60 to 0.80	%	
Flow : 260°C, 2.00 mm	0.60 to 0.80	%	
Water Absorption			ISO 62
Saturation, 23°C	0.60	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	53.0	MPa	
Break, 23°C	56.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	5.1	%	
Break, 23°C	> 50	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	45	kJ/m ²	
23°C	55	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180
-30°C	No Break		
23°C	No Break		
Multi-Axial Instrumented Impact Energy			ISO 6603-2
-30°C	50.0	J	

23°C	44.0	J	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	129	°C	ISO 75-2/B
1.8 MPa, Unannealed	107	°C	ISO 75-2/A
Vicat Softening Temperature			
--	130	°C	ISO 306/B50
--	132	°C	ISO 306/B120
CLTE			
Flow : 23 to 55°C	7.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	7.5E-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	3.00		
23°C, 1 MHz	2.90		
Dissipation Factor			IEC 60250
23°C, 100 Hz	2.5E-3		
23°C, 1 MHz	9.5E-3		
Comparative Tracking Index (Solution A)	200	V	IEC 60112
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ² (260°C)	260	Pa·s	ISO 11443-A
NOTE			
1.	60x60x2 mm, 80°C MT		
2.	1000/s		

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