

Bayblend® T80 XG

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; unreinforced; injection molding grade; Vicat/B 120 temperature = 130 °C; excellent flow; optimized surface quality for metallization (steam treatment).

General Information			
Features	Good Flow		
	Good Surface Finish		
	Metallizable		
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)	27.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow : 260°C, 3.00 mm	0.55 to 0.75	%	
Flow : 260°C, 3.00 mm	0.55 to 0.75	%	
Water Absorption			ISO 62
Saturation, 23°C	0.70	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2500	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	62.0	MPa	
Break, 23°C	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.7	%	
Break, 23°C	> 50	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	14	kJ/m ²	
23°C	42	kJ/m ²	
Unnotched Izod Impact Strength (23°C)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	127	°C	ISO 75-2/B
1.8 MPa, Unannealed	108	°C	ISO 75-2/A

Vicat Softening Temperature			
--	128	°C	ISO 306/B50
--	130	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	7.2E-5	cm/cm/°C	
Transverse : 23 to 55°C	7.2E-5	cm/cm/°C	
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
Electric Strength (23°C, 1.00 mm)	45	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	175	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		

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