

Bayblend® M850 XF

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; Vicat/B 120 temperature = 131°C; easy flow; meet certain requirements of ISO Standard 10993-1. For further information please contact Covestro.

General Information			
Features	Good Flow		
RoHS Compliance	RoHS Compliant		
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)	25.0	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	53.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.9	%	
Break, 23°C	> 50	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	15	kJ/m ²	
23°C	48	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	109	°C	ISO 75-2/A
Vicat Softening Temperature			
--	129	°C	ISO 306/B50
--	131	°C	ISO 306/B120
CLTE			ISO 11359-2

Flow : 23 to 55°C	7.0E-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+17	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	2.90		
23°C, 1 MHz	2.90		
Dissipation Factor			IEC 60250
23°C, 100 Hz	3.0E-3		
23°C, 1 MHz	9.0E-3		
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)	210	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

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