

Bayblend® W85 XF

Acrylonitrile Styrene Acrylate + PC

Covestro - Polycarbonates

Message:

(PC+ASA) blend; unreinforced; injection molding grade with improved weather resistance; optimized heat ageing stability; easy flow; high heat resistance; Vicat/B 120 = 132 °C.

General Information			
Features	Good Flow		
	Good Heat Aging Resistance		
	Good Weather Resistance		
	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.16	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	0.50	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	2450	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	63.0	MPa	
Break, 23°C	62.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	5.0	%	
Break, 23°C	> 50	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-20°C	15	kJ/m ²	
23°C	45	kJ/m ²	
Unnotched Izod Impact Strength			ISO 180
-30°C	No Break		
23°C	No Break		
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			
--	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	7.0E-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	3.10		
23°C, 1 MHz	2.80		
Dissipation Factor			IEC 60250
23°C, 100 Hz	2.5E-3		
23°C, 1 MHz	0.011		
Comparative Tracking Index (Solution A)	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.850 mm)	HB		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ² (260°C)	225	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

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