Bayblend® T90 MF-20

Polycarbonate + SAN

Covestro - Polycarbonates

Message:

Rubber modified (PC+SAN) blend; 20 % mineral filled; injection molding grade; very good flow; reduced coefficient of thermal expansion; tensile modulus = 4900 MPa; high heat resistance; Vicat/B 120 = 130 °C.

General Information			
Filler / Reinforcement	Mineral,20% Filler by Weight		
Features	Good Flow High Heat Resistance Low CLTE		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density (23°C)	1.29	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	12.0	cm³/10min	ISO 1133
Molding Shrinkage [1]			ISO 2577
Across Flow : 260°C, 3.00 mm	0.25 to 0.45	%	
Flow : 260°C, 3.00 mm	0.30 to 0.50	%	
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)	4900	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	60.0	MPa	
Break, 23°C	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	3.2	%	
Break, 23°C	9.0	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength			ISO 180/A
-30°C	6.0	kJ/m²	
23°C	20	kJ/m²	
Unnotched Izod Impact Strength			ISO 180
-30°C	50	kJ/m²	
23°C	100	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature			
0.45 MPa, Unannealed	127	°C	ISO 75-2/B
1.8 MPa, Unannealed	111	°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	4.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	5.6E-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	3.30		
23°C, 1 MHz	3.20		
Dissipation Factor			IEC 60250
23°C, 100 Hz	1.5E-3		
23°C, 1 MHz	3.2E-3		
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)	240	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

Recommended distributors for this material

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