

Bayblend® FR421 MT

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

Rubber modified, mineral filled PC blend; flame retardant; Vicat/B 120 = 134 °C; extrusion grade for aircraft interiors. Please contact us directly regarding classifications according to the respective aircraft standards.

General Information			
Filler / Reinforcement	Mineral		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Aircraft Interiors		
RoHS Compliance	RoHS Compliant		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.29	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	2.00	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow : 260°C, 3.00 mm	0.60 to 0.80	%	
Flow : 260°C, 3.00 mm	0.50 to 0.70	%	
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)	3400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	58.0	MPa	
Break, 23°C	47.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.0	%	
Break, 23°C	22	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	30	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	129	°C	ISO 75-2/B
1.8 MPa, Unannealed	118	°C	ISO 75-2/A
Vicat Softening Temperature			
--	132	°C	ISO 306/B50
--	134	°C	ISO 306/B120

CLTE			ISO 11359-2
Flow : 23 to 55°C	5.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	6.0E-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)	41	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.10		
23°C, 1 MHz	3.00		
Dissipation Factor			IEC 60250
23°C, 100 Hz	4.6E-3		
23°C, 1 MHz	9.4E-3		
Comparative Tracking Index (Solution A)	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm, Bayer Test	V-0		
3.00 mm, Bayer Test	5VA		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ² (260°C)	2120000	mPa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	100/s		

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