

Bayblend® FR410 MT

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

Rubber modified PC blend; 10 % mineral filled; flame-retardant; Vicat/B 120 = 108 °C; very good UL recognition in small wallthickness (V-0 at 0.75 mm); for railway interiors. Due to the special formulation of this grade, the final parts may require coating. Please contact us directly regarding classifications according to the respective rail standards.

General Information			
UL YellowCard	E41613-100057726		
Filler / Reinforcement	Mineral,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.30	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	10.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow : 260°C, 3.00 mm	0.40 to 0.50	%	
Flow : 260°C, 3.00 mm	0.40 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)	3950	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	63.0	MPa	
Break, 23°C	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.0	%	
Break, 23°C	19	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-30°C	7.0	kJ/m ²	
23°C	9.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	94.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	106	°C	ISO 306/B50

--	108	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	4.8E-5	cm/cm/°C	
Transverse : 23 to 55°C	5.9E-5	cm/cm/°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
0.750 mm	V-0		
2.00 mm	5VB		
3.00 mm	5VA		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ² (260°C)	360	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

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