

Bayblend® ET3032 FR

 Covestro - Polycarbonates - *Polycarbonate + ABS*
General Information
Product Description

Rubber modified PC blend; 10 % mineral filled; flame retardant; Vicat/B 120 temperature = 108°C; extrusion grade; good extrusion and vacuum-forming behaviour; UL-recognition 94 V-0 at 0.75mm; glow wire temperature (GWFI): 960°C at 2.0 mm

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Mineral, 10% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • Good Processability
RoHS Compliance	• RoHS Compliant
Processing Method	• Extrusion • Vacuum Forming
ISO Designation	• PC-I-TD10 FR(40+72)

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.30	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	10	cm ³ /10min	ISO 1133
Molding Shrinkage ²			ISO 2577
Across Flow : 500°F, 0.118 in	0.40 to 0.50	%	
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Water Absorption (Saturation, 73°F)	0.50	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	573000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	9140	psi	ISO 527-2/50
Tensile Stress (Break, 73°F)	7250	psi	ISO 527-2/50
Tensile Strain (Yield, 73°F)	4.0	%	ISO 527-2/50
Tensile Strain (Break, 73°F)	15	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength			ISO 180/A
-22°F	3.3	ft·lb/in ²	
73°F	4.3	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	201	°F	ISO 75-2/A
Vicat Softening Temperature			
--	226	°F	ISO 306/B120
--	223	°F	ISO 306/B50
CLTE - Flow (73 to 131°F)	2.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	3.3E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	V-0		
0.08 in, Internal Test	5VB		
0.12 in, Internal Test	5VA		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ³ (500°F)	380	Pa·s	ISO 11443-A

