

Bayblend® FR3021 GR

Covestro - Polycarbonates - Polycarbonate + ABS

General Information
Product Description

(PC+ABS)-Blend; 15 % mineral filled; with 30 % post consumer recycle - water bottle content; flame retardant; Vicat/B 120 temperature = 97°C; increased stiffness; tensile modulus = 4600 MPa; UL recognition 94 V-0 at 1.5 mm

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Mineral, 15% Filler by Weight
Additive	• Flame Retardant
Recycled Content	• Post-Consumer (PCR), 30%
Features	• Flame Retardant • Good Stiffness
RoHS Compliance	• RoHS Compliant
ISO Designation	• PC+ABS-TD15 FR(40)

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.29	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/5.0 kg)	9.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 2577
Across Flow	0.20 to 0.40	%	
Flow	0.20 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	667000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	9570	psi	ISO 527-2/50
Tensile Stress (Break, 73°F)	5950	psi	ISO 527-2/50
Tensile Strain (Yield, 73°F)	2.9	%	ISO 527-2/50
Tensile Strain (Break, 73°F)	4.0	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	3.3	ft·lb/in ²	ISO 180/A
Unnotched Izod Impact Strength (73°F)	33	ft·lb/in ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	198	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	183	°F	ISO 75-2/A
Vicat Softening Temperature	207	°F	ISO 306/B120
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (73°F)	1.0E+16	ohms·cm	IEC 60093
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (500°F)	211	Pa·s	ISO 11443-A

