

Bayblend® FR3005 HF BBS314

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

(PC+ABS)-Blend; flame retardant; very easy-flowing; Vicat/B 120 temperature = 96°C; UL recognition 94 V-0 at 1.5 mm; Components for the electrical/electronics sector

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Flame Retardant		
Features	• Flame Retardant	• Good Flow	
Uses	• Electrical/Electronic Applications		
ISO Designation	• PC+ABS-FR(40)		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.19	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/5.0 kg)	38	cm ³ /10min	ISO 1133
Molding Shrinkage ²			ISO 2577
Across Flow : 464°F, 0.118 in	0.30 to 0.50	%	
Flow : 464°F, 0.118 in	0.30 to 0.50	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	392000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	8700	psi	ISO 527-2/50
Tensile Stress (Break, 73°F)	6530	psi	ISO 527-2/50
Tensile Strain (Yield, 73°F)	3.6	%	ISO 527-2/50
Tensile Strain (Break, 73°F)	> 40	%	ISO 527-2/50
Flexural Modulus ³ (73°F)	406000	psi	ISO 178
Flexural Stress ³ (73°F)	13600	psi	ISO 178
Flexural Strain at Flexural Strength ⁴ (73°F)	5.0	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 180/A
Unnotched Izod Impact Strength (73°F)	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	194	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	174	°F	ISO 75-2/A
Vicat Softening Temperature	205	°F	ISO 306/B120
CLTE - Flow (73 to 131°F)	3.9E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	4.0E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (73°F)	1.0E+17	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-0		
0.07 in	5VB		
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity ⁵ (464°F)	120	Pa·s	ISO 11443-A



Notes

¹ Typical properties: these are not to be construed as specifications.

² 150x105x3 mm, 80°C MT

³ 0.079 in/min

⁴ 2.0 mm/min

⁵ 1000s⁻¹

