

Bayblend® FR3005 BBS310

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; unreinforced; flame-retardant; injection molding grade; Vicat/B 120 temperature = 89 °C; UL recognition 94 V-0 (1.5 mm); improved chemical resistance.

General Information			
UL YellowCard	E41613-100694599		
Additive	Flame Retardant		
Features	Flame Retardant		
	Good Chemical Resistance		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.19	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/5.0 kg)	30.0	cm³/10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow : 240°C, 3.00 mm	0.50 to 0.70	%	
Flow : 240°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)	2650	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	60.0	MPa	
Break, 23°C	45.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	3.6	%	
Break, 23°C	39	%	
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact Strength (23°C)	14	kJ/m²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	83.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	74.0	°C	ISO 75-2/A
Vicat Softening Temperature	89.0	°C	ISO 306/B120

CLTE		ISO 11359-2
Flow : 23 to 55°C	7.6E-5	cm/cm/°C
Transverse : 23 to 55°C	8.0E-5	cm/cm/°C
Flammability	Nominal Value	Test Method
	V-0	
Flame Rating (1.50 mm)	5VB	UL 94
NOTE		
1.	150x105x3 mm, 80°C MT	

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