

Bayblend® FR3020

Polycarbonate + ABS

Covestro - Polycarbonates

Message:

(PC+ABS) blend; 5 % mineral filled; flame retardant; for thin-wall applications; injection molding; Vicat/B 120 = 103 °C; HDT/A >= 85 °C; very good UL recognition in small wall thicknesses (UL 94 V-0 at 0.75 mm).

General Information			
UL YellowCard	E41613-581399		
Filler / Reinforcement	Mineral,5.0% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Uses	Thin-walled Parts		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.20	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (240°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage ¹			ISO 2577
Across Flow : 240°C, 3.00 mm	0.40 to 0.60	%	
Flow : 240°C, 3.00 mm	0.40 to 0.60	%	
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)	3200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield, 23°C	65.0	MPa	
Break, 23°C	50.0	MPa	
Tensile Strain			ISO 527-2/50
Yield, 23°C	4.0	%	
Break, 23°C	> 30	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (23°C)	11	kJ/m ²	ISO 180/A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	95.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	101	°C	ISO 306/B50

--	103	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 55°C	7.0E-5	cm/cm/°C	
Transverse : 23 to 55°C	7.0E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+16	ohms·cm	IEC 60093
Electric Strength (23°C, 1.00 mm)	35	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
23°C, 100 Hz	3.10		
23°C, 1 MHz	3.00		
Dissipation Factor			IEC 60250
23°C, 100 Hz	5.0E-3		
23°C, 1 MHz	7.0E-3		
Comparative Tracking Index (Solution A)	275	V	IEC 60112
Flammability	Nominal Value	Unit	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)	200	Pa·s	ISO 11443-A
NOTE			
1.	150x105x3 mm, 80°C MT		
2.	1000/s		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

