

Starflam BFR460B1

Polyamide 6

Eurostar Engineering Plastics

Message:

Starflam BFR460B1 is a Flame Retardant, Glass Fiber Reinforced, Polyamide 6 Injection Molding Resin

General Information			
UL YellowCard	E340012-100759761		
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.55	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.15 to 0.30	%	Internal Method
Water Absorption (Saturation, 23°C)	4.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9000	MPa	ISO 527-2/1
Tensile Stress (Break)	145	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ²			ISO 180/1A
-40°C	8.0	kJ/m ²	
-20°C	9.0	kJ/m ²	
23°C	10	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, Unannealed, 100 mm Span	217	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	202	°C	ISO 75-2/Ae
Vicat Softening Temperature	212	°C	ISO 306/B120
CLTE			ISO 11359-2
Flow : 23 to 60°C	1.8E-5	cm/cm/°C	
Transverse : 23 to 60°C	9.0E-5	cm/cm/°C	
RTI Elec	65.0	°C	UL 746
RTI Imp	65.0	°C	UL 746
RTI Str	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94

Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.00 mm	800	°C	
2.00 mm	825	°C	
3.00 mm	875	°C	
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.20	%	
Rear Temperature	240 to 250	°C	
Middle Temperature	250 to 260	°C	
Front Temperature	250 to 270	°C	
Processing (Melt) Temp	250 to 270	°C	
Mold Temperature	50.0 to 90.0	°C	
NOTE			
1.	Tensile Bar		
2.	80*10*4		
3.	120*10*4		

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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

