

Starflam AFR560B1

Polyamide 66

Eurostar Engineering Plastics

Message:

Starflam AFR560B1 is a Flame Retardant, Mineral Filled and Glass Fiber Reinforced, Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100747899		
Filler / Reinforcement	Glass\Mineral		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.25 to 0.35	%	Internal Method
Water Absorption (Saturation, 23°C)	4.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8600	MPa	ISO 527-2/1
Tensile Stress (Break)	115	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	3.0	kJ/m ²	
-20°C	4.0	kJ/m ²	
23°C	5.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³			
0.45 MPa, Unannealed, 100 mm Span	260	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	245	°C	ISO 75-2/Ae
Vicat Softening Temperature	258	°C	ISO 306/B120
Ball Pressure Test ⁴ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	4.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	8.0E-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 (2.00 mm)	960	°C IEC 60695-2-12
Oxygen Index	30	% ISO 4589-2
Injection	Nominal Value	Unit
Drying Temperature	75.0 to 85.0	°C
Drying Time	4.0 to 6.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	260 to 270	°C
Middle Temperature	270 to 280	°C
Front Temperature	270 to 285	°C
Processing (Melt) Temp	270 to 285	°C
Mold Temperature	60.0 to 90.0	°C
NOTE		
1.	Tensile Bar	
2.	80*10*4	
3.	120*10*4	
4.	125°C ±2°C	

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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



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