

Starflam AFR450B

Polyamide 66

Eurostar Engineering Plastics

Message:

Starflam AFR450B is a Flame Retardant, 25% Glass Fiber Reinforced Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100755277		
Filler / Reinforcement	Glass Fiber,25% Filler by Weight		
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	0.20 to 0.30	%	Internal Method
Water Absorption (Saturation, 23°C)	4.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	9200	MPa	ISO 527-2/1
Tensile Stress (Break)	120	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	%	ISO 527-2/5
Flexural Modulus ²	8900	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength ³ (23°C)	55	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁴			ISO 180/1A
-20°C	6.0	kJ/m ²	
23°C	7.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, Unannealed, 100 mm Span	256	°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
CLTE			ISO 11359-2
Flow : 23 to 60°C	2.7E-5	cm/cm/°C	
Transverse : 23 to 60°C	9.2E-5	cm/cm/°C	
Flammability	Nominal Value	Test Method	
Flame Rating (0.800 mm)	V-0	UL 94	
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.	2.0 mm/min
3.	80*10*4 sp=62mm
4.	80*10*4
5.	120*10*4

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

