# Starflam® AFR450B1

### polyamide 66



Starflam AFR450B1 is a flame retardant, 25% glass fiber reinforced PA66 for injection molded applications.

General						
Additive	• Flame Retarding Agent	• Hea	Heat Stabilizer		• Release agent	
Features	Flame Retardant	• Halo	Halogenated			
Appearance	Natural Color					
Forms	• Pellets					
Processing Method	<ul> <li>Injection Molding</li> </ul>					
Physical		dry	cond.	Unit	Test Standard	
Density		1.56	-	g/cm³	ISO 1183	
Water Absorption, Saturati	ion, 23°C	4.5		%	ISO 62	
Mechanical		dry	cond.	Unit	Test Standard	
Tensile Modulus (23°C)		9100	-	MPa	ISO 527-2	
Tensile Stress (Break, 23°C	·)	150	-	MPa	ISO 527-2	
Tensile Strain (Break, 23°C	)	2	-	%	ISO 527-2	
Flexural Modulus (23°C)		8900	-	MPa	ISO 178	
Flexural Strength (23°C)		215	-	MPa	ISO 178	
Impact		dry	cond.	Unit	Test Standard	
Notched Izod Impact Strength					ISO 180/1A	
+23°C		7	-	kJ/m²		
-30°C		6	-	kJ/m²		
Unnotched Izod Impact St	rength, +23°C	60	-	kJ/m²	ISO 180/1U	
Thermal		dry	cond.	Unit	Test Standard	
CLTE					ISO 11359-2	
Flow: 23 to 55°C, 2.00	mm	30	*	E-6/K		
Transverse : 23 to 55°0	C, 2.00 mm	90	*	E-6/K		
Electrical		Value		Unit	Test Standard	
Comparative Tracking Inde	ex (3.00 mm)	375		V	IEC 60112	
Flammability		Value		Unit	Test Standard	
Glow Wire Flammability Index					IEC 60695-2-12	
2.00 mm		960		°C		

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Injection	Value	Unit	
Drying Temperature	75 - 85	°C	
Drying Time	4 - 6	h	
Suggested Max Moisture	0.2	%	
Rear Temperature	260 - 270	°C	
Middle Temperature	270 - 280	°C	
Front Temperature	270 - 285	°C	
Processing (Melt) Temperature	270 - 285	°C	
Mold Temperature	60 - 90	°C	



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