+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Starflam® AFR450B1

polyamide 66

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

General

Regional Availability	• North America	• Europe	
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Release agent
Features	• Flame Retardant	• Halogenated	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.56	-	g/cm³	ISO 1183
Water Absorption, Saturation, 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 Strength, +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°C, 2.00 mm	90	*	E-6/K	

Electrical	Value	Unit	Test Standard
Comparative Tracking Index (3.00 mm)	375	V	IEC 60112

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Flammability	Value	Unit	Test Standard
Glow Wire Flammability Index			IEC 60695-2-12
2.00 mm	960	°C	

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