

Starflam AFR200B

Polyamide 66
Eurostar Engineering Plastics

Message:
Starflam AFR200B is a Unfilled, Flame Retardant Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100755275		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.0 to 1.5	%	Internal Method
Water Absorption (Saturation, 23°C)	6.5	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	120		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	80.0	MPa	
Break	80.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	3.7	%	
Break	6.0	%	
Flexural Modulus ²	2800	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³			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 ⁴			
0.45 MPa, Unannealed, 100 mm Span	216	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	100	°C	ISO 75-2/Ae
Vicat Softening Temperature	245	°C	ISO 306/B120
Ball Pressure Test ⁵ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	8.5E-5	cm/cm/°C	

Transverse : 23 to 60°C	8.5E-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
Volume Resistivity	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index			IEC 60112
--	350	V	
Solution B	250	V	
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	29	%	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 280	°C	
Processing (Melt) Temp	270 to 280	°C	
Mold Temperature	60.0 to 90.0	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*4		
4.	120*10*4		
5.	125°C ±2°C		

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