

Starflam BFR430A

Polyamide 6
Eurostar Engineering Plastics

Message:

Starflam BFR430A is a Flame Retardant, Glass Fiber Reinforced Polyamide 6 Injection Molding Resin

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Flame Retardant		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.35 to 0.55	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6200	MPa	ISO 527-2/1
Tensile Stress (Break)	85.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	%	ISO 527-2/5
Flexural Modulus ²	6000	MPa	ISO 178
Flexural Stress	165	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength ³			ISO 180/1A
-40°C	4.0	kJ/m ²	
-20°C	5.0	kJ/m ²	
23°C	6.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁴			
0.45 MPa, Unannealed, 100 mm Span	205	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	180	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	215	°C	ISO 306/A50
--	200	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.60 mm, Tested by E2P)	V-0		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	

Suggested Max Moisture	0.20	%
Rear Temperature	240 to 250	°C
Middle Temperature	250 to 260	°C
Front Temperature	250 to 270	°C
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	50.0 to 90.0	°C

NOTE		
1.	Tensile Bar	
2.	2.0 mm/min	
3.	80*10*4	
4.	120*10*4	

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