

Starflam® 525H BK0771

polyamide 66



Starflam 525H BK0771 is a heat stabilized, non-red phosphorus and non-halogenated flame retardant, PA66 grade modified with 25% glass fiber for improved stiffness and strength.

General

Additive	• Flame Retarding Agent		
Features	• Corrosion Resistant • Good Dimensional Stability • High Flow	• Fast Molding Cycle • Good Processability • High Strength	• Flame Retardant • Heat Aging Resistant
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.40	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.9	*	%	
Flow : 23°C, 2.00 mm	0.6	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	9400	7000	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	123	91	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	3	%	ISO 527-2
Flexural Modulus (23°C)	9000	6000	MPa	ISO 178
Flexural Strength (23°C)	197	129	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	8.7	10	kJ/m ²	
-30°C	7.5	7.9	kJ/m ²	
-40°C	7.4	7.6	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	59	60	kJ/m ²	
-30°C	55	52	kJ/m ²	
-40°C	52	52	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	7.9	9.5	kJ/m ²	
-30°C	7.4	7.6	kJ/m ²	
-40°C	7.3	8	kJ/m ²	

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Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	237	226	°C	
0.45 MPa, Unannealed	255	253	°C	
Melting Temperature	260	*	°C	ISO 11357-3
RTI Elec				UL 746
0.200 mm	140		°C	
0.400 mm	150		°C	
0.750 mm	150		°C	
1.50 mm	150		°C	
3.00 mm	150		°C	
RTI Imp				UL 746
0.200 mm	110		°C	
0.400 mm	115		°C	
0.750 mm	130		°C	
1.50mm	140		°C	
3.00 mm	140		°C	
RTI Str				UL 746
0.200 mm	120		°C	
0.400 mm	125		°C	
0.750 mm	140		°C	
1.50 mm	150		°C	
3.00 mm	150		°C	
Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	31	19	kV/mm	IEC 60243
Comparative Tracking Index (3.00 mm)	575		V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.400 mm	PLC 0			
0.750 mm	PLC 0			
1.50 mm	PLC 0			
3.00 mm	PLC 0			
Hot-wire Ignition (HWI)				UL 746
0.400 mm	PLC 1			
0.750 mm	PLC 1			
1.50 mm	PLC 0			
3.00 mm	PLC 0			

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Flammability	Value	Unit	Test Standard
Flammability			UL 94
0.200 mm	V-0		
0.400 mm	V-0		
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Flammability, 5V			UL 94
1.50 mm	5VA		
3.00 mm	5VA		
Glow Wire Flammability Index			IEC 60695-2-12
0.400 mm	960	°C	
0.750 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.400 mm	750	°C	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4 - 6	h
Rear Temperature	275 - 300	°C
Middle Temperature	275 - 300	°C
Front Temperature	275 - 300	°C
Processing (Melt) Temperature	275 - 300	°C
Mold Temperature	60 - 120	°C



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or contact with internal body fluids or tissues for extended periods of time.