Starflam® 525K BK0778 polyamide 66



Starflam 525K BK0778 is an organic heat stabilized, non-halogenated, non-red phosphorus flame retardant, PA66 grade modified with 25% glass fiber for improved stiffness and strength.

General			
Additive	 Flame Retarding Agent 		
Features	 Corrosion Resistant 	 Fast Molding Cycle 	 Flame Retardant
	 Good Dimensional Stability 	 Good Processability 	 Heat Aging Resistant
	High Flow	 High Strength 	 Low Density
Automotive Specifications	• GM GMW18122P-PA- GF25-TypeB1	• Tesla TM-1006 v3 - 303120V - compliance	
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.40	-	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.1	*	%	
Flow : 23°C, 2.00 mm	0.3	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	*	%	
Equilibrium, 23°C, 50% RH	1.9	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	8500	6900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	127	91	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.7	3	%	ISO 527-2
Flexural Modulus (23°C)	9100	5900	MPa	ISO 178
Flexural Strength (23°C)	193	127	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	8.9	11	kJ/m²	
-30°C	8.3	7.6	kJ/m²	
-40°C	8.3	7.9	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	57	62	kJ/m²	
-30°C	57	53	kJ/m²	
-40°C	55	53	kJ/m²	

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Notched Izod Impact Strength				ISO 180/1A
+23°C	8.1	10	kJ/m²	
-30°C	7.8	7.9	kJ/m²	
-40°C	7.7	7.7	kJ/m²	
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	237	228	°C	
0.45 MPa, Unannealed	256	254	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	23	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	67	*	E-6/K	
RTI Elec				UL 746
0.200 mm	140		°C	
0.400 mm	140		°C	
0.750 mm	140		°C	
1.50 mm	140		°C	
3.00 mm	140		°C	
RTI Imp				UL 746
0.200 mm	95		°C	
0.400 mm	110		°C	
0.750 mm	120		°C	
1.50mm	130		°C	
3.00 mm	130		°C	
RTI Str				UL 746
0.200 mm	115		°C	
0.400 mm	130		°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)	42	-	kV/mm	IEC 60243
Comparative Tracking Index (3.00 mm)	600		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 2		
0.750 mm	PLC 1		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
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		
Blow Wire Flammability Index			IEC 60695-2-12
0.200 mm	960	°C	
0.400 mm	960	°C	
0.750 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	

Injection	Valu	e U	nit
Drying Temperature	80	°C	-
Drying Time	4 - 6	s h	
Rear Temperature	275 - 3	000 °C	2
Middle Temperature	275 - 3	000 °C]
Front Temperature	275 - 3	000 °C]
Processing (Melt) Temperature	275 - 3	000 °C	2
Mold Temperature	60 - 1	20 °C	_
	North America	Europe	Asia



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