

Starflam® 525H NT0767

polyamide 66



Starflam 525H NT0767 (formerly Vydyn® ECO525H NT0767) is a 25% glass reinforced PA66, heat stabilized, flame retardant that is halogen and red phosphorous free.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Flame Retarding Agent		
Features	• Corrosion Resistant	• Fast Molding Cycle	• Flame Retardant
	• Good Colorability	• Good Dimensional Stability	• Good Processability
	• Heat Aging Resistant	• High Flow	• High Strength
Appearance	• Natural Color		
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	1.1	*	%	
Flow : 23°C, 2.00 mm	0.3	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.3	*	%	
Equilibrium, 23°C, 50% RH	1.9	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	9200	7300	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	136	97	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.2	3.4	%	ISO 527-2
Flexural Modulus (23°C)	9000	6100	MPa	ISO 178
Flexural Strength (23°C)	210	130	MPa	ISO 178
Poisson's Ratio (23°C)	0.34	-	-	ISO 527-2

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	11	13	kJ/m ²	
-30°C	9.5	9.6	kJ/m ²	
-40°C	9.3	9.6	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	67	73	kJ/m ²	
-30°C	68	67	kJ/m ²	

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-40°C	67	66	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	9.8	12	kJ/m²	
-30°C	8.9	9.3	kJ/m²	
-40°C	9	9	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	236	228	°C	
0.45 MPa, Unannealed	257	254	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	19	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	68	*	E-6/K	
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
Volume Resistivity (1.00 mm)	2.1E13	-	Ohm*m	IEC 60093
Dielectric Strength (1.00 mm)	39	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		-	

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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	-

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	

Railway Application	dry	cond.	Unit	Test Standard
Oxygen index	34	-	%	EN ISO 4589-2
Smoke Density	134		Ds Max	EN ISO 5659-2
Smoke Toxicity	0.38		CIT _{NLP}	NF X 70-100-1/2

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

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

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Mold Temperature

60 - 120

°C

