

Starflam® 366H NT0708

polyamide 66



Starflam 366H NT0708 (formerly Vydyn® ECO366H NT0708) is an unfilled, heat stabilized PA66, containing a non-halogen flame retardant. 366H NT0708 is designed for electrical and electronic components and offers outstanding RTI Electrical performance of 150°C and UL94 V0 at 0.2mm thickness.

General

Additive	• Flame Retarding Agent	• Heat Stabilizer	• Lubricant
Features	• Chemical Resistant • Good Electrical Properties • Ignition Resistant	• Corrosion Resistant • Good Mold Release • Lubricated	• Flame Retardant • Heat Aging Resistant • Thermal Stability
Agency Rating	• RoHS Compliant		
Automotive Specifications	• Tesla TM-1006 v3 - 301000V - compliance		
UL File Number	• E70062		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.17	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.2	*	%	
Flow : 23°C, 2.00 mm	0.9	*	%	
Water Absorption				ISO 62
23°C, 24 hr	0.8	*	%	
Equilibrium, 23°C, 50% RH	2.3	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	4000	1900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	86	56	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	84	43	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4	22	%	ISO 527-2
Tensile Strain (Break, 23°C)	7	66	%	ISO 527-2
Flexural Modulus (23°C)	3800	1600	MPa	ISO 178
Flexural Strength (23°C)	109	38	MPa	ISO 178
Poisson's Ratio (23°C)	0.4			ISO 527-2

©2025 Ascend Performance Materials Operations. The Ascend Performance Materials name, brands, marks and logos (e.g., those identified with ®, ™, or SM) are owned by Ascend Performance Materials Operations, unless otherwise noted.

Starflam® 366H NT0708

polyamide 66



Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	3	6	kJ/m ²	
-30°C	3	4	kJ/m ²	
-40°C	3	3	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	72	190	kJ/m ²	
-30°C	72	89	kJ/m ²	
-40°C	69	80	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	3	6	kJ/m ²	
-30°C	3	5	kJ/m ²	
-40°C	3	4	kJ/m ²	
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	80	-	°C	
0.45 MPa, Unannealed	227	215	°C	
Melting Temperature	262	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	59	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	67	*	E-6/K	
RTI Elec				UL 746
0.400 mm	150		°C	
0.750 mm	150		°C	
1.50 mm	150		°C	
3.00 mm	150		°C	
RTI Imp				UL 746
0.400 mm	110		°C	
0.750 mm	110		°C	
1.50mm	110		°C	
3.00 mm	110		°C	
RTI Str				UL 746
0.400 mm	130		°C	
0.750 mm	130		°C	
1.50 mm	130		°C	
3.00 mm	130		°C	

Starflam® 366H NT0708

polyamide 66



Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E17	-	Ohm*m	IEC 60093
Dielectric Strength (1.00 mm)	30	24	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	5			ASTM D 495
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			
High Voltage Arc Tracking Rate (HVTR), 3.00 mm	PLC 0			UL 746
Hot-wire Ignition (HWI)				UL 746
0.400 mm	PLC 4			
0.750 mm	PLC 3			
1.50 mm	PLC 3			
3.00 mm	PLC 1			

Flammability	dry	cond.	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			
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	960		°C	
0.750 mm	960		°C	
1.50 mm	800		°C	
3.00 mm	775		°C	
Oxygen index	33	*	%	EN ISO 4589-2

©2025 Ascend Performance Materials Operations. The Ascend Performance Materials name, brands, marks and logos (e.g., those identified with ®, ™, or SM) are owned by Ascend Performance Materials Operations, unless otherwise noted.

Starflam® 366H NT0708

polyamide 66



Railway Application	dry	cond.	Unit	Test Standard
Oxygen index	33	-	%	EN ISO 4589-2
Smoke Density	135		Ds Max	EN ISO 5659-2
Smoke Toxicity	0.55		CIT _{NLP}	NF X 70-100-1/2
Railway Classification				EN 45545-2
R22	HL3			
R23	HL3			

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Rear Temperature	260 - 290	°C
Middle Temperature	260 - 290	°C
Front Temperature	260 - 290	°C
Nozzle temperature	260 - 290	°C
Processing (Melt) Temperature	270 - 285	°C
Mold Temperature	65 - 95	°C



North America
+1 888 927 2363

Europe
+32 10 608 600

Asia
+86 21 2315 0888

Disclaimer

NOTICE: Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, Ascend Performance Materials Operations makes no representation or warranties as to the completeness of accuracy thereof.

Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will Ascend Performance Materials Operations be responsible for damages of any nature whatsoever resulting in the use of or reliance upon information or the products to which information refers. Nothing contained herein is to be construed as a recommendation to use any product, equipment or formulation in conflict with any patent, and Ascend Performance Materials Operations makes no representation or warranty, express or implied, that use thereof will not infringe any patent. No representation or warranties, either express or implied, of merchantability fitness for a particular purpose or of any other nature are made hereunder with respect to information or product to which information refers.

CAUTION: Do not use Ascend Performance Materials Operations MED grades in medical applications involving implantation in the human body or contact with internal body fluids or tissues for extended periods of time.