Starflam® 377H NT0801

polyamide 66

Starflam 377H NT0801 is an unfilled, PA66 homo-polymer utilizing a non-halogen flame retardant, designed with superior flow properties to assist in filling thin-walled, intricate parts. It is heat stabilized to provide best in class RTI. 377H NT0801 is also lubricated for machine feed, easy mold release and formulated with enhanced ductility.

General

Additive	• Flame Retarding Agent	• Heat Stabilizer	• Lubricant
Features	• Chemical Resistant	• Corrosion Resistant	• Flame Retardant
	• Good Electrical Properties	• Good Mold Release	• Good Toughness
	• Heat Aging Resistant	• High Elongation	• Ignition Resistant
	• Lubricated		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.17	-	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.2	*	%	
Flow : 23°C, 2.00 mm	1.7	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	3500	1500	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	82	49	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	17	85	%	ISO 527-2
Flexural Modulus (23°C)	3700	1700	MPa	ISO 178
Flexural Strength (23°C)	103	43	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	3.1	11	kJ/m²	
-30°C	3.1	4	kJ/m²	
-40°C	3.1	4.3	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	86	N	kJ/m²	
-30°C	82	160	kJ/m²	
-40°C	79	152	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	3.3	8.6	kJ/m²	
-30°C	3.7	5	kJ/m²	

-40°C	3.6	4.8	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	77	103	°C	
0.45 MPa, Unannealed	228	212	°C	
Melting Temperature	262	*	°C	ISO 11357-3
RTI Elec				UL 746
0.400 mm	150		°C	
0.750 mm	150		°C	
RTI Imp				UL 746
0.400 mm	110		°C	
0.750 mm	110		°C	
RTI Str				UL 746
0.400 mm	130		°C	
0.750 mm	130		°C	

Electrical	Value	Unit	Test Standard
Comparative Tracking Index (3.00 mm)	600	V	IEC 60112
Hot-wire Ignition (HWI)			UL 746
0.400 mm	PLC 1		
0.750 mm	PLC 1		

Flammability	Value	Test Standard
Flammability		UL 94
0.400 mm	V-0	
0.750 mm	V-0	

Railway Application	Value	Unit	Test Standard
Smoke Density	123	Ds Max	EN ISO 5659-2
Smoke Toxicity	0.61	CIT_{NLP}	NF X 70-100-1/2

Injection	Value	Unit
Drying Temperature	≥ 80	°C
Drying Time	≥ 4	h
Rear Temperature	260 - 290	°C
Middle Temperature	265 - 290	°C
Front Temperature	265 - 290	°C

Nozzle temperature	265 - 290	°C
Processing (Melt) Temperature	270 - 285	°C
Mold Temperature	65 - 95	°C

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