

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

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Lubricant
Features	• Chemical Resistant • Good Electrical Properties • Heat Aging Resistant • Lubricated	• Corrosion Resistant • Good Mold Release • High Elongation	• Flame Retardant • Good Toughness • Ignition Resistant
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	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/m ²	
-30°C	3.1	4	kJ/m ²	
-40°C	3.1	4.3	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	86	N	kJ/m ²	
-30°C	82	160	kJ/m ²	
-40°C	79	152	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	3.3	8.6	kJ/m ²	

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-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

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

