

Vydyne® 66H NT0754

polyamide 66



Vydyne 66H NT0754 is a high-viscosity, heat-stabilized PA66 resin with ideal shear-thinning behavior for injection-molding and extrusion applications. It is available in natural color only. 66H NT0754 offers a combination of high strength, rigidity, toughness, abrasion resistance, chemical resistance, and thermal stability making it appealing for a broad range of applications.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Features	• Chemical Resistant • Good Toughness • High Strength • Solvent Resistant	• Gasoline Resistant • High Melt Stability • High Viscosity	• General Purpose • High Rigidity • Oil Resistant
Agency Rating	• ASTM, D6779 • FDA, 21 CFR 177.1500 • RoHS Compliant	• EC, 1935/2004 • ASTM, D4066	• EU, 10/2011 • EU, 2023/2006
Automotive Specifications	• FCA MS-DB-41_CPN 2473	• Renault UB19b	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Other Extrusion		

Physical

	dry	cond.	Unit	Test Standard
Density	1.14	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	2.4	*	%	
Flow : 23°C, 2.00 mm	2.4	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1.8	*	%	
Equilibrium, 23°C, 50% RH	2.4	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2900	1400	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	83	54	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	71	97	%	ISO 527-2
Flexural Modulus (23°C)	3000	1100	MPa	ISO 178
Flexural Strength (23°C)	90	30	MPa	ISO 178
Poisson's Ratio (23°C)	0.38		-	ISO 527-2

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Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	5	12	kJ/m²	
-30°C	4.1	5.7	kJ/m²	
-40°C	4.5	4.9	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m²	
-30°C	N	N	kJ/m²	
-40°C	N	N	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	5	7.7	kJ/m²	
-30°C	4.1	6.2	kJ/m²	
-40°C	4.5	5	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	67	94	°C	
0.45 MPa, Unannealed	188	184	°C	
Melting Temperature	262	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	71	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	76	*	E-6/K	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	2.7E13	1.4E9	Ohm*m	IEC 60093

Injection	Value	Unit
Drying Temperature	60 - 75	°C
Drying Time	4	h
Rear Temperature	280 - 310	°C
Middle Temperature	280 - 310	°C
Front Temperature	280 - 310	°C
Nozzle temperature	280 - 310	°C
Processing (Melt) Temperature	285 - 305	°C
Mold Temperature	65 - 95	°C

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Extrusion	Value	Unit
Cylinder Zone 1 Temp	250 - 295	°C
Cylinder Zone 2 Temp	250 - 295	°C
Cylinder Zone 3 Temp	250 - 295	°C
Cylinder Zone 4 Temp	250 - 295	°C
Cylinder Zone 5 Temp	250 - 295	°C
Melt temperature	270 - 295	°C
Die temperature	270 - 295	°C

