

Vydyne® 63H NT0752

polyamide 66



Vydyne 63H NT0752 is a medium-viscosity, heat stabilized PA66 resin suitable for injection-molding, extrusion and compounding applications. It is available in natural color only. 63H NT0752 resin offers high strength, rigidity, and toughness over a broad range of demanding applications, good fluid resistance to a wide variety of chemicals, solvents and oils, and heat stability to ensure property longevity when the material is subjected to higher temperatures.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer		
Features	• Chemical Resistant • Heat Stabilized • High Strength • Solvent Resistant	• General Purpose • High Melt Strength • Medium Viscosity	• Good Toughness • High Rigidity • Oil Resistant
Agency Rating	• ASTM, D6779 PA0122 • ASTM, D4066 PA0122	• EC, 1935/2004 • EU, 2023/2006	• EU, 10/2011
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	1.9	*	%	
Flow : 23°C, 2.00 mm	1.9	*	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2.5	*	%	
Water Absorption, Saturation, 23°C	8.5		%	ISO 62

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	3200	1700	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	85	55	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	55	65	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5	20	%	ISO 527-2
Tensile Strain (Break, 23°C)	25	200	%	ISO 527-2
Flexural Modulus (23°C)	2500	700	MPa	ISO 178
Flexural Strength (23°C)	70	20	MPa	ISO 178
Poisson's Ratio (23°C)	0.4		-	ISO 527-2

Vydyne® 63H NT0752

polyamide 66



Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	6	25	kJ/m²	
-30°C	5	9	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m²	
-30°C	N	N	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	6	25	kJ/m²	
-30°C	5	9	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	68	-	°C	
0.45 MPa, Unannealed	190	-	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	100	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	100	*	E-6/K	

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

