

Vydyne® 65A NT0751

polyamide 66



Vydyne 65A NT0751 is a medium-viscosity, heat-stabilized PA66 resin suitable for injection-molding, extrusion and compounding applications. It is available in natural color only. 65A NT0751 resin offers high strength, rigidity and toughness over a broad range of demanding applications, and good fluid resistance to a wide variety of chemicals, solvents and oils.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer		
Features	• Chemical Resistant • High Rigidity • Oil Resistant	• General Purpose • High Strength • Solvent Resistant	• Good Toughness • Medium Viscosity
Agency Rating	• ASTM, D6779 PA0123 • FDA, 21 CFR 177.1500 • EU, 2023/2006	• EC, 1935/2004 • FED, L-P-410A • MIL, M-20693B	• EU, 10/2011 • ASTM, D4066 PA0123
Automotive Specifications	• Stellantis 01378_20_03295		
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	1.8	*	%	
Flow : 23°C, 2.00 mm	2.0	*	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2.3	*	%	
Water Absorption, Saturation, 23°C	8.5		%	ISO 62

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	3100	1800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	85	50	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	55	50	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.5	21	%	ISO 527-2
Tensile Strain (Break, 23°C)	25	200	%	ISO 527-2
Flexural Modulus (23°C)	2800	700	MPa	ISO 178
Flexural Strength (23°C)	75	20	MPa	ISO 178
Poisson's Ratio (23°C)	0.4		-	ISO 527-2

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Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	5	35	kJ/m²	
-30°C	6	7	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	35	kJ/m²	
-30°C	5	7	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	65	-	°C	
0.45 MPa, Unannealed	200	-	°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

