

Vydyne® 63H NT0702

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne 63H NT0702 is a medium-viscosity, heat-stabilized PA66 resin suitable for injection-molding, extrusion and compounding applications. It is available in natural color only. Vydyne 63H NT0702 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 Information	
Additive	heat stabilizer
Features	Rigidity, high
	High strength
	Solvent resistance
	Good melt strength
	Good chemical resistance
	Oil resistance
	Thermal Stability
	Good toughness
	General
	Medium viscosity
Uses	Bar
	Films
	monofilament
	Industrial application
	Pipe fittings
	cast film
	Sheet
	Food packaging
Agency Ratings	ASTM D 4066 PA0112
	ASTM D 6779 PA0112
	EC 1935/2004
	EU 2023/2006
	Europe 10/1/2011 12:00:00 AM
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Composite

Extrusion
Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Lateral flow: 23°C, 2.00mm	1.9	--	%	ISO 294-4
Traffic: 23°C, 2.00mm	1.9	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	8.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3200	1700	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	85.0	55.0	MPa	ISO 527-2
Fracture, 23°C	55.0	65.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	5.0	20	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	> 25	> 200	%	ISO 527-2
Flexural Modulus (23°C)	2500	700	MPa	ISO 178
Flexural Stress (23°C)	70.0	20.0	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	9.0	kJ/m ²	ISO 179/1eA
23°C	6.0	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Notched Izod Impact				ISO 180
-30°C	5.0	9.0	kJ/m ²	ISO 180
23°C	6.0	25	kJ/m ²	ISO 180
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	190	--	°C	ISO 75-2/B
1.8 MPa, not annealed	68.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2

Flow: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C, 2.00mm	1.0E-4	--	cm/cm/°C	ISO 11359-2
Extrusion	Dry	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	
Extrusion instructions				

Recommended Extrusion Conditions:Melt Point: 260°C Melt Pressure: 3 to 17 MPa Blow Film Bath Temperature: 20°C to 80°C Chill Roll Temperature (Cast Film): 20°C to 80°C Screw Design: General Purpose or Barrier

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