Vydyne® 66R NT0750
polyamide 66

Vydyne 66R NT0750 is a high-viscosity, heat-stabilized PA66 resin suitable for injection-molding and extrusion applications. It is available in natural color only. Vydyne 66R NT0750 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			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Additive	• Heat Stabilizer		
Features	• Chemical Resistant • Gasoline Resistant • General Purpose • Good Toughness	• Heat Stabilized • High Rigidity • High Strength • High Viscosity	• Kosher Approved • Oil Resistant • Slip • Solvent Resistant
Uses	• Film • Industrial Applications • Monofilaments	• Profiles • Rods • Sheet	• Tubing
Agency Ratings	• ASTM D4066 PA0124 • ASTM D6779 PA0124 • EC 1935/2004	• EU 10/2011 • EU 2023/2006 • FDA 21 CFR 177.1500	• FED L-P-410A • MIL M-20693B
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Extrusion		

Physical	Dry	Conditioned	Unit	Test Method
Density	1.14	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	2.0	--	%	
Flow : 23°C, 2.00 mm	2.1	--	%	
Water Absorption				ISO 62
Saturation, 23°C	8.5	--	%	
Equilibrium, 23°C, 50% RH	2.5	--	%	

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2800	1800	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	85.0	55.0	MPa	
Break, 23°C	55.0	70.0	MPa	
Tensile Strain (Yield, 23°C)	5.0	25	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	> 25	> 130	%	ISO 527-2
Flexural Modulus (23°C)	3100	900	MPa	ISO 178
Flexural Strength (23°C)	90.0	30.0	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	6.0	6.0	kJ/m²	
23°C	6.0	25	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180
-30°C	6.0	6.0	kJ/m²	
23°C	6.0	25	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	195	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	1.0E-4	--	cm/cm/°C	
Transverse : 23 to 55°C, 2.00 mm	1.0E-4	--	cm/cm/°C	

Extrusion	Dry	Unit
Cylinder Zone 1 Temp.	250 to 295	°C
Cylinder Zone 2 Temp.	250 to 295	°C
Cylinder Zone 3 Temp.	250 to 295	°C
Cylinder Zone 4 Temp.	250 to 295	°C
Cylinder Zone 5 Temp.	250 to 295	°C
Melt Temperature	270 to 295	°C
Die Temperature	270 to 295	°C

Extrusion Notes

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

Notes

Typical properties: these are not to be construed as specifications.

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