

Vydyne® A 30 GF NT WR

Ascend Performance Materials Operations LLC - Polyamide 66

General Information

Product Description

Vydyne A 30 GF NT WR is standard flow, 30% glass-fiber reinforced PA66 resin. Suitable for use with water up to 85 C, this product is also lubricated for improved machine feed and flow.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Lubricant
Features	<ul style="list-style-type: none"> • Balanced Stiffness/Toughness • Bromine Free • Chemical Resistant • General Purpose • Good Color Stability • Good Colorability • Good Dimensional Stability • Good Flow • Good Impact Resistance • Good Processability • Good Rigidity • Good Strength • Good Tensile Strength • Good Thermal Stability • Halogen Free • Heat Aging Resistant • Heat Stabilized • Homopolymer • Hydrolysis Resistant • Lubricated • Medium Viscosity • Non-Corrosive
Agency Ratings	• ISO 1043 PA66 GF30 • WRAS BS6920-1: 2000 and 2014 ¹
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF30

Properties²

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 73°F, 0.0787 in	0.70	%	
Flow : 73°F, 0.0787 in	0.30	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.42E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	26800	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	5.7	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	482	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	473	°F	ISO 75-2/A
Melting Temperature	500	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (0.118 in)	575	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		HB	
0.13 in		HB	
Glow Wire Flammability Index (0.08 in)	1200	°F	IEC 60695-2-12



Injection	Nominal Value	Unit
Drying Temperature	176 to 230	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	518 to 563	°F
Middle Temperature	527 to 563	°F
Front Temperature	536 to 572	°F
Nozzle Temperature	536 to 572	°F
Processing (Melt) Temp	536 to 563	°F
Mold Temperature	158 to 203	°F

Notes

¹ expires 2023

² Typical properties: these are not to be construed as specifications.

