

Vydyne® B 30 GF NT

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Vydyne B 30 GF NT is standard flow, 30% glass-fiber reinforced PA6 resin. Available in natural, 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	• Lubricant
Features	• Chemical Resistant • General Purpose • Lubricated • Gasoline Resistant • Good Flow
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA6-GF30

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.35	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	0.40	%	
Water Absorption (24 hr, 73°F)	1.1	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.38E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	26100	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.19E+6	psi	ISO 178
Flexural Stress (73°F)	37700	psi	ISO 178
Poisson's Ratio (73°F)	0.34		ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°F	4.3	ft·lb/in ²	
-22°F	4.8	ft·lb/in ²	
73°F	7.1	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-40°F	31	ft·lb/in ²	
-22°F	36	ft·lb/in ²	
73°F	40	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180/1A
-40°F	4.3	ft·lb/in ²	
-22°F	4.8	ft·lb/in ²	
73°F	6.7	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ISO 75-2/A
Melting Temperature	428	°F	ISO 11357-3



CLTE - Flow (73 to 131°F, 0.0787 in)	1.1E-5 in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	3.9E-5 in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit
Electric Strength (0.0394 in)	640	V/mil
Comparative Tracking Index (0.118 in)	600	V
Flammability	Nominal Value	Unit
Glow Wire Flammability Index (0.08 in)	1200	°F
		IEC 60695-2-12

Processing Information		
Injection	Nominal Value	Unit
Drying Temperature	176 to 194	°F
Drying Time	> 3.0	hr
Processing (Melt) Temp	446 to 500	°F
Mold Temperature	176 to 194	°F

Notes		
¹ Typical properties: these are not to be construed as specifications.		

