Vydyne® B 30 GB NT KW2

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

Vydyne B 30 GB NT KW2 is standard flow, organic heat stabilized, 30% glass-beads 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 Bead, 30% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Chemical Resistant • Gasoline Resistant • General Purpose • Good Dimensional Stability	• Good Flow • Good Heat Resistance • Good Mold Release • Heat Stabilized	• Heat Stabilized - Organic • Lubricated
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA6-GB30		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 73°F, 0.0787 in	1.1	%	
Flow : 73°F, 0.0787 in	0.90	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	2.1	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	580000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	10200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	7.0	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	2.1	ft·lb/in²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	14	ft·lb/in²	ISO 180/1U
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	356	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	194	°F	ISO 75-2/A
Melting Temperature	432	°F	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (0.118 in)	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.06 in	HB		
0.12 in	HB		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185 to 203	°F
Drying Time	> 3.0	hr
Rear Temperature	446 to 518	°F
Middle Temperature	446 to 518	°F
Front Temperature	446 to 518	°F

Nozzle Temperature	446 to 518 °F
Processing (Melt) Temp	446 to 518 °F
Mold Temperature	176 to 194 °F

Notes

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