

**Vydyne® B 33 GF BK EST KW2**

 Ascend Performance Materials Operations LLC - *Polyamide 6*
**General Information**
**Product Description**

Vydyne B 33 GF BK EST KW2 is standard flow, organic heat stabilized, 33% glass-fiber reinforced PA6 resin. Available in black, 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, 33% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Chemical Resistant • Gasoline Resistant • General Purpose	• Good Flow • Good Heat Resistance • Heat Stabilized	• Heat Stabilized - Organic • Lubricated
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA6-GF33		

**Properties <sup>1</sup>**

Physical	Dry	Conditioned	Unit	Test Method
Density	1.39	--	g/cm <sup>3</sup>	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)	2.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.48E+6	972000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	26500	17100	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.9	6.4	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength (73°F)	7.1	10	ft-lb/in <sup>2</sup>	ISO 180/1A
Thermal	Dry	Conditioned	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
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (0.118 in)	575	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.06 in	HB	--		
0.12 in	HB	--		

**Processing Information**

Injection	Dry Unit
Drying Temperature	194 to 212 °F
Drying Time	> 3.0 hr
Rear Temperature	446 to 500 °F
Middle Temperature	446 to 500 °F
Front Temperature	446 to 500 °F
Nozzle Temperature	446 to 500 °F
Processing (Melt) Temp	446 to 500 °F



Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

