

## Vydyne® A 30 GF BK EST KW2 UV

Ascend Performance Materials Operations LLC - Polyamide 66

### General Information

#### Product Description

Vydyne A 30 GF BK EST KW2 UV is standard flow, organic heat stabilized, 30% glass-fiber reinforced PA66 resin. Available in black, this product is also lubricated for improved machine feed and flow and it is UV stabilized for outdoor applications.

#### General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Lubricant
Features	• Chemical Resistant • Good Flow • Heat Stabilized - Organic • Gasoline Resistant • Good Heat Resistance • Lubricated • General Purpose • Heat Stabilized
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF30

### Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	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)	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.38E+6	986000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	25400	16000	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.0	4.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength (73°F)	4.8	8.1	ft·lb/in <sup>2</sup>	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	482	--	°F	ISO 75-2/A
Melting Temperature	500	--	°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
0.030 in	HB	--		
0.06 in	HB	--		
0.12 in	HB	--		

### Processing Information

Injection	Dry Unit
Drying Temperature	176 to 194 °F
Drying Time	> 3.0 hr
Rear Temperature	509 to 563 °F
Middle Temperature	509 to 563 °F
Front Temperature	509 to 563 °F
Nozzle Temperature	509 to 563 °F
Processing (Melt) Temp	509 to 563 °F
Mold Temperature	158 to 194 °F

