

**Vydyne® AG3**

 Ascend Performance Materials Operations LLC - *Polyamide 66*
**General Information**
**Product Description**

Vydyne AG3 is a 15% glass fiber reinforced PA66 for injection molded applications.

**General**

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Mold Release
Features	• Good Stiffness • Good Strength
Agency Ratings	• ISO 1043 PA66 GF15
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF15

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

Physical	Nominal Value	Unit	Test Method
Density	1.23	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Saturation, 73°F)	7.0	%	ISO 62
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	943000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	18100	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	870000	psi	ISO 178
Flexural Stress (73°F)	25400	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (73°F)	26	ft·lb/in <sup>2</sup>	ISO 179/1eU
Notched Izod Impact Strength (73°F)	2.9	ft·lb/in <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
RTI Elec			UL 746B
0.030 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.030 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
0.030 in	149	°F	
0.12 in	149	°F	
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in	HB		
0.12 in	HB		

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%



Rear Temperature	500 to 536 °F
Middle Temperature	518 to 536 °F
Front Temperature	518 to 554 °F
Processing (Melt) Temp	518 to 554 °F
Mold Temperature	140 to 194 °F

#### Notes

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

