

Vydyne® AG6H

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne AG6H is a 30% glass fiber reinforced PA66 for injection molded applications.

General

Material Status	• Commercial: Active
Availability	• Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Mold Release
Features	• Good Stiffness • Good Strength • Heat Stabilized
Agency Ratings	• ISO 1043 PA66 GF30
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF30

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	4.5	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.2	%	ISO 62
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.36E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	24700	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	%	ISO 527-2
Flexural Modulus (73°F)	1.31E+6	psi	ISO 178
Flexural Stress (73°F)	37700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	3.3	ft·lb/in ²	
73°F	3.8	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	26	ft·lb/in ²	
73°F	36	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180/1A
-40°F	3.8	ft·lb/in ²	
-22°F	3.8	ft·lb/in ²	
73°F	4.8	ft·lb/in ²	
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	167 to 185	°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

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

