Vydyne® AG6

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description		
Vydyne AG6 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	• Mold Release	
Features	• Good Stiffness	• Good Strength
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/cm³	ISO 1183
Water Absorption (Saturation, 73°F)	4.5	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.3	%	ISO 62
Outdoor Suitability	f1		UL 746C
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.38E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	25400	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/in²	
73°F	3.8	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	26	ft·lb/in²	
73°F	36	ft·lb/in²	
Notched Izod Impact Strength			ISO 180/1A
-40°F	3.8	ft·lb/in²	
-22°F	3.8	ft·lb/in²	
73°F	4.8	ft·lb/in²	
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

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