

Vydyne® AG6

polyamide 66



Vydyne AG6 is a 30% glass fiber reinforced PA66 for injection molded applications.

General

Regional Availability	• North America	• Europe
Additive	• Release agent	
Features	• Good Stiffness	• Good Strength
Agency Rating	• ISO, 1043 PA66 GF30	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical

	dry	cond.	Unit	Test Standard
Density	1.37	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	1.3	*	%	
Water Absorption, Saturation, 23°C	4.5		%	ISO 62
Outdoor Suitability	f1		-	UL 746C

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	9500	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	175	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3	-	%	ISO 527-2
Flexural Modulus (23°C)	9000	-	MPa	ISO 178
Flexural Strength (23°C)	260	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	8	-	kJ/m ²	
-30°C	7	-	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	75	-	kJ/m ²	
-30°C	55	-	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	10	-	kJ/m ²	
-30°C	8	-	kJ/m ²	
-40°C	8	-	kJ/m ²	

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Thermal	Value	Unit	Test Standard
RTI Elec			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	
RTI Imp			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	
RTI Str			UL 746
0.750 mm	65	°C	
3.00 mm	65	°C	

Flammability	Value	Test Standard
Flammability		UL 94
0.750 mm	HB	
3.00 mm	HB	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	260 - 280	°C
Middle Temperature	270 - 280	°C
Front Temperature	270 - 290	°C
Processing (Melt) Temperature	270 - 290	°C
Mold Temperature	60 - 90	°C

