

Vydyne® AG10

polyamide 66



Vydyne AG10 is a 50% glass fiber reinforced PA66 for injection molded applications.

General				
Regional Availability	• North America	• Europe		
Additive	• Heat Stabilizer	• Release agent		
Features	• Good Stiffness	• Good Strength		
Agency Rating	• ISO, 1043 PA66 GF50			
Appearance	• Natural Color			
Forms	• Pellets			
Processing Method	• Injection Molding			

Physical	dry	cond.	Unit	Test Standard
Density	1.58	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	0.7	*	%	
Water Absorption, Saturation, 23°C	2.5		%	ISO 62

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	14800	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	210	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3	-	%	ISO 527-2
Flexural Modulus (23°C)	13800	-	MPa	ISO 178
Flexural Strength (23°C)	310	-	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Unnotched Impact Strength, +23°C	140	-	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
+23°C	15	-	kJ/m ²	
-30°C	13	-	kJ/m ²	
-40°C	13	-	kJ/m ²	

Thermal	dry	cond.	Unit	Test Standard
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	19	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	71	*	E-6/K	
RTI Elec				UL 746
0.750 mm	65		°C	
3.00 mm	65		°C	

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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	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E14	-	Ohm*m	IEC 60093
Comparative Tracking Index (3.00 mm)	500		V	IEC 60112

Flammability	dry	cond.	Unit	Test Standard
Flammability				UL 94
0.750 mm	HB		-	
3.00 mm	HB		-	
Glow Wire Flammability Index				IEC 60695-2-12
2.00 mm	2		°C	
Oxygen index	27	*	%	EN ISO 4589-2

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

