

Vydyne® AG3

polyamide 66



Vydyne AG3 is a 15% 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 GF15	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical

	dry	cond.	Unit	Test Standard
Density	1.23	-	g/cm ³	ISO 1183
Water Absorption, Saturation, 23°C	7		%	ISO 62
Outdoor Suitability	f1		-	UL 746C

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	6500	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	125	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3	-	%	ISO 527-2
Flexural Modulus (23°C)	6000	-	MPa	ISO 178
Flexural Strength (23°C)	175	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Unnotched Impact Strength, +23°C	55	-	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength, +23°C	6	-	kJ/m ²	ISO 180/1A

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	

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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

