

Vydyne® A28N

polyamide 66



Vydyne A28N is a nucleated and unreinforced PA66 for injection molded applications.

General

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

Physical

	dry	cond.	Unit	Test Standard
Density	1.14	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2	*	%	
Water Absorption, Saturation, 23°C	8.5		%	ISO 62

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	3000	-	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	85	-	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	3.8	-	%	ISO 527-2
Tensile Strain (Break, 23°C)	20	-	%	ISO 527-2
Flexural Modulus (23°C)	2800	-	MPa	ISO 178
Flexural Strength (23°C)	105	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	5	-	kJ/m ²	
-30°C	3	-	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	270	-	kJ/m ²	
-30°C	100	-	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	5	-	kJ/m ²	
-30°C	3	-	kJ/m ²	
-40°C	3	-	kJ/m ²	

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Thermal	dry	cond.	Unit	Test Standard
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	80	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	80	*	E-6/K	
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	
Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E14	-	Ohm*m	IEC 60093
Comparative Tracking Index (3.00 mm)	600		V	IEC 60112
Flammability	dry	cond.	Unit	Test Standard
Flammability				UL 94
0.750 mm	V-2		-	
3.00 mm	V-2		-	
Oxygen index	26	*	%	EN ISO 4589-2
Injection	Value		Unit	
Drying Temperature	80		°C	
Drying Time	4		h	
Suggested Max Moisture	0.2		%	
Rear Temperature	260 - 270		°C	
Middle Temperature	270 - 280		°C	
Front Temperature	270 - 290		°C	
Processing (Melt) Temperature	270 - 290		°C	
Mold Temperature	60 - 90		°C	

