

Vydyne® A28N

 Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

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

General

Material Status	• Commercial: Active		
Availability	• Europe	• North America	
Additive	• Heat Stabilizer	• Mold Release	• Nucleating Agent
Features	• Heat Stabilized	• Nucleated	
Agency Ratings	• ISO 1043 PA66		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA66		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Water Absorption (Saturation, 73°F)	8.5	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.0	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	435000	psi	ISO 527-1
Tensile Stress (Yield, 73°F)	12300	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.8	%	ISO 527-2
Tensile Strain (Break, 73°F)	20	%	ISO 527-2
Flexural Modulus (73°F)	406000	psi	ISO 178
Flexural Stress (73°F)	15200	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.4	ft·lb/in ²	
73°F	2.4	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	48	ft·lb/in ²	
73°F	130	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180/1A
-40°F	1.4	ft·lb/in ²	
-22°F	1.4	ft·lb/in ²	
73°F	2.4	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (73 to 131°F, 0.0787 in)	4.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F, 0.0787 in)	4.4E-5	in/in/°F	ISO 11359-2
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	
Electrical	Nominal Value	Unit
Volume Resistivity (0.0394 in)	1.0E+16	ohms·cm
Comparative Tracking Index (0.118 in)	600	V
Flammability	Nominal Value	Unit
Flame Rating		UL 94
0.030 in	V-2	
0.12 in	V-2	
Oxygen Index	26 %	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	500 to 518	°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.

