Vydyne® A28
Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne A28 is an unreinforced, PA66 for injection molded applications.

General

Material Status	• Commercial: Active	
Availability	• Europe	• North America
Additive	• Heat Stabilizer	• Mold Release
Features	• Heat Stabilized	
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/cm³	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 Stress (Break, 73°F)	2900	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.8	%	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/in²	
73°F	2.4	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	48	ft·lb/in²	
73°F	130	ft·lb/in²	
Notched Izod Impact Strength			ISO 180/1A
-40°F	1.4	ft·lb/in²	
-22°F	1.4	ft·lb/in²	
73°F	2.4	ft·lb/in²	

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

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (0.0394 in)	1.0E+16	ohms·cm	IEC 60093
Comparative Tracking Index (0.118 in)	600	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Oxygen Index	26	%	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	167 to 185	°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.