

Vydyne® R530J NT0981

 Ascend Performance Materials Operations LLC - *Polyamide 66*
General Information
Product Description

Vydyne R530J NT0981 is a natural, 30% glass filled, standard flow, PA66 that is heat stabilized with an electrically neutral heat stabilizer. It is specially designed for electrical and electronic applications that require high dielectric strength, low conductivity, and corrosion resistance.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Lubricant • Mold Release
Features	• Chemical Resistant • Corrosion Resistant • Good Colorability • Good Electrical Properties • Good Flow • Good Mold Release • Heat Stabilized • Heat Stabilized - Organic • High Strength • Lubricated
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-GF30

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	1.0	--	%	
Flow : 73°F, 0.0787 in	0.40	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	2.0	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	1.58E+6	1.02E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	29600	19600	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.4	6.1	%	ISO 527-2
Flexural Modulus (73°F)	1.46E+6	972000	psi	ISO 178
Flexural Stress (73°F)	42800	24700	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°F	5.4	5.5	ft·lb/in ²	
-22°F	5.4	5.6	ft·lb/in ²	
73°F	6.0	8.0	ft·lb/in ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°F	33	31	ft·lb/in ²	
-22°F	33	36	ft·lb/in ²	
73°F	38	47	ft·lb/in ²	
Notched Izod Impact Strength				ISO 180/1A
-40°F	5.6	5.7	ft·lb/in ²	
-22°F	5.5	5.8	ft·lb/in ²	
73°F	6.0	8.8	ft·lb/in ²	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	504	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	487	--	°F	ISO 75-2/A



Melting Temperature	504	--	°F	ISO 11357-3
Processing Information				
Injection				Dry Unit
Drying Temperature				< 176 °F
Drying Time				< 4.0 hr
Rear Temperature				536 to 590 °F
Middle Temperature				536 to 590 °F
Front Temperature				536 to 590 °F
Nozzle Temperature				536 to 590 °F
Processing (Melt) Temp				545 to 581 °F
Mold Temperature				149 to 203 °F

Notes

¹ Typical properties: these are not to be construed as specifications.

