

Vydyne® R535H NT651

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne R535H NT651 is a natural, 35% glass-filled PA66 resin. It is heat stabilized with an electrically neutral heat stabilizer and designed for electrical applications requiring high dielectric strength, low conductivity, and corrosion resistance.

General Information				
UL YellowCard		E70062-249086		
Filler / Reinforcement		Glass Fiber,35% Filler by Weight		
Additive		Heat Stabilizer		
		Lubricant		
Features		Good Chemical Resistance		
		Good Corrosion Resistance		
		Good Electrical Properties		
		Good Flow		
		Heat Stabilized		
		Lubricated		
Uses		Automotive Under the Hood		
		Electric Motor Housings		
		Electrical Housing		
		Electrical/Electronic Applications		
UL File Number		E70062		
Appearance		Natural Color		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 2.00 mm	0.90	--	%	
Flow : 2.00 mm	0.40	--	%	
Water Absorption				ISO 62
23°C, 24 hr	0.80	--	%	
Equilibrium, 23°C, 50% RH	1.6	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11800	9500	MPa	ISO 527-2
Tensile Stress (Break)	210	150	MPa	ISO 527-2

Tensile Strain (Break)	3.0	2.9	%	ISO 527-2
Flexural Modulus	10500	6000	MPa	ISO 178
Flexural Stress	300	140	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	11	11	kJ/m ²	
23°C	12	16	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	75	kJ/m ²	
23°C	68	89	kJ/m ²	
Notched Izod Impact Strength				ISO 180
-30°C	12	12	kJ/m ²	
23°C	14	18	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	252	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	1.9E-5	--	cm/cm/°C	
Transverse : 23 to 55°C	7.5E-5	--	cm/cm/°C	
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Suggested Max Regrind	25		%	
Rear Temperature	280 to 310		°C	
Middle Temperature	280 to 310		°C	
Front Temperature	280 to 310		°C	
Nozzle Temperature	280 to 310		°C	
Processing (Melt) Temp	285 to 305		°C	
Mold Temperature	65.0 to 95.0		°C	

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