Vydyne® R535H NT651
polyamide 66

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

Typical Applications/End Uses:
To come

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 35% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Antifreeze Resistant • Fatigue Resistant • Gasoline Resistance	• Good Chemical Resistance • Good Flow • Heat Stabilized	• Hydrolysis Resistant • Lubricated • Solvent Resistant
Uses	• Electrical/Electronic Applications		
Automotive Specifications	• CHRYSLER MS-DB-41 CPN4018 Color: Black • DAEWOO EDS-M-5164-11 • FEDERAL LP410A • FORD WSK-M4D642-A Color: Black • FORD WSK-M4D642-A2 Color: Black	• FORD WSK-M4D752-A Color: Black • GM GMP.PA66.040 Color: Black • GM GMP.PA66.040 Color: Natural • GM GMW3038P-PA66-GF30H Color: Black • GM GMW3038P-PA66-GF30H Color: Natural	• OPEL QK 003013 H Color: Black • OPEL QK 003013 H Color: Natural • OPEL QK 003013 HW Color: Black • TagAZ TAMS-8723-01
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 : 0.0787 in	0.90	--	%	
Flow : 0.0787 in	0.40	--	%	
Water Absorption (73°F, 24 hr)	0.80	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	1.6	--	%	ISO 62

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Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.69E+6	1.30E+6	psi	ISO 527-2
Tensile Stress (Break)	30300	22200	psi	ISO 527-2
Tensile Strain (Break)	2.8	4.0	%	ISO 527-2
Flexural Modulus	1.52E+6	1.01E+6	psi	ISO 178
Flexural Stress	43500	27400	psi	ISO 178
Poisson's Ratio	0.35	--		ISO 527
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	5.1	5.5	ft·lb/in²	
73°F	5.8	6.8	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	32	36	ft·lb/in²	
73°F	38	43	ft·lb/in²	
Notched Izod Impact Strength				ISO 180
-22°F	5.2	5.7	ft·lb/in²	
73°F	5.7	6.7	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				ISO 75-2/B
66 psi, Unannealed	502	--	°F	
Heat Deflection Temperature				ISO 75-2/A
264 psi, Unannealed	484	--	°F	
Melting Temperature	500	--	°F	ISO 11357-3
CLTE - Flow (73 to 131°F)	1.2E-5	--	in/in/°F	ISO 11359-2
CLTE - Transverse (73 to 131°F)	5.9E-5	--	in/in/°F	ISO 11359-2

Injection	Dry	Unit
Drying Temperature	176	°F
Drying Time	4.0	hr
Suggested Max Regrind	25	%
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
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