

Vydyne R530H NT is a general purpose, 30% glass-filled, heat-stabilized PA66 based resin designed for injection molding applications. R530H NT offers improved flow with a natural surface finish and maintains the excellent resistance typical of PA66 in chemicals, machine and motor oils, solvents, and gasoline.

General

Additive	• Heat Stabilizer	• Lubricant	
Features	• Antifreeze Resistant • Gasoline Resistant • Lubricated	• Chemical Resistant • Good Flow • Solvent Resistant	• Fatigue Resistant • Heat Stabilized
Agency Rating	• ASTM, D4066 PA012G30 • EU, 2023/2006	• ASTM, D6779 PA012G30 • EU, 10/2011	• FDA, 21 CFR 177.1500 • EC, 1935/2004
Automotive Specifications	• GM GMW3038P-PA66-GF30H • Tesla TM-1006 v3 - 101130 • GM GMW3038P-PA66-GF30J • Chery Motor Q-SQR.S1-33-2012 CMP.PA66.G6	• Tesla TM-1006 v3 - 301130 • Mahle SD2-181 (AR.06576) • GM GMW16270P-PA66-GF30 • Aisin TO20141124 - P-PA66-GF30-807	• Tesla TM-1006 v3 - 201130 • HMG MS211-42 Type A Rev. 7 • Ford WSS-M4D752-B1 • Toyota TSM5603G, Class 2B, Rev 5 (compliance)
UL File Number	• E70062		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.37	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.2	*	%	
Flow : 23°C, 2.00 mm	0.5	*	%	
Water Absorption, 23°C, 24 hr	1.2	*	%	ISO 62

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	10000	7400	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	195	135	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3	5	%	ISO 527-2
Flexural Modulus (23°C)	9500	8100	MPa	ISO 178
Flexural Strength (23°C)	272	208	MPa	ISO 178
Poisson's Ratio (23°C)	0.37			ISO 527-2

Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	13	14	kJ/m ²	
-30°C	12	11	kJ/m ²	
-40°C	12	11	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	72	90	kJ/m ²	
-30°C	63	67	kJ/m ²	
-40°C	61	64	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	11	13	kJ/m ²	
-30°C	11	11	kJ/m ²	
-40°C	11	11	kJ/m ²	
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	252	250	°C	
0.45 MPa, Unannealed	262	261	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	22	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	76	*	E-6/K	
RTI Elec				UL 746
0.750 mm	140		°C	
1.50 mm	140		°C	
3.00 mm	140		°C	
RTI Imp				UL 746
0.750 mm	120		°C	
1.50mm	120		°C	
3.00 mm	120		°C	
RTI Str				UL 746
0.750 mm	125		°C	
1.50 mm	140		°C	
3.00 mm	140		°C	
Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E11	-	Ohm*m	IEC 60093
Dielectric Strength (1.00 mm)	20	-	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	6			ASTM D 495

Comparative Tracking Index (3.00 mm)	250 - 399	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746
0.750 mm	PLC 0		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR), 3.00 mm	PLC 1		UL 746
Hot-wire Ignition (HWI)			UL 746
0.750 mm	PLC 4		
1.50 mm	PLC 3		
3.00 mm	PLC 4		

Flammability	Value	Unit	Test Standard
Burning Rate, 2.00 mm		mm/min	ISO 3795
Flammability			UL 94
0.750 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	675	°C	
1.50 mm	675	°C	
3.00 mm	675	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	700	°C	
1.50 mm	700	°C	
3.00 mm	700	°C	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Rear Temperature	280 - 310	°C
Middle Temperature	280 - 310	°C
Front Temperature	280 - 310	°C
Nozzle temperature	280 - 310	°C
Processing (Melt) Temperature	285 - 305	°C
Mold Temperature	65 - 95	°C



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