

Vydyne R530 NAT is a general purpose, 30% glass-filled, high viscosity PA66 based resin designed for injection molding applications. R530 NAT offers standard flow with a natural surface finish and maintains the excellent resistance typical of PA66 in chemicals, machine and motor oils, solvents, and gasoline.

Lubricant					
Antifreeze Resistant     Chemical Resistant			• Fa	Fatigue Resistant	
<ul> <li>Gasoline Resistant</li> </ul>	• Go	od Flow	• Lu	bricated	
Solvent Resistant					
• ASTM, D4066 PA011G30 • ASTM, D6779 PA011G30		630 • E0	• EC, 1935/2004		
• EU, 10/2011	• EU	, 2023/2006	• FI	DA, 21 CFR 177.1500	
• Aisin TO20141124 - P- PA66-GF30-005					
• E70062					
• Food approval 10/2011	• Fo	od approval FDA 21	CFR		
Natural Color					
• Pellets					
Injection Molding					
	dry	cond.	Unit	Test Standard	
	1.37	-	g/cm³	ISO 1183	
				ISO 294-4	
ım	0.9	*	%		
	0.4	*	%		
				ISO 62	
	0.9	*	%		
	1.9	*	%		
	dry	cond.	Unit	Test Standard	
	10000	7400	MPa	ISO 527-2	
	10000 195	7400 135	MPa MPa	ISO 527-2 ISO 527-2	
	195	135	MPa	ISO 527-2	
	<ul> <li>Antifreeze Resistant</li> <li>Gasoline Resistant</li> <li>Solvent Resistant</li> <li>ASTM, D4066 PA011G</li> <li>EU, 10/2011</li> <li>Aisin TO20141124 - P-PA66-GF30-005</li> <li>E70062</li> <li>Food approval 10/2011</li> <li>Natural Color</li> <li>Pellets</li> </ul>	Antifreeze Resistant     Gasoline Resistant     Solvent Resistant     ASTM, D4066 PA011G30     EU, 10/2011     Aisin TO20141124 - P-PA66-GF30-005     E70062     Food approval 10/2011     Natural Color     Pellets     Injection Molding      dry     1.37	<ul> <li>Antifreeze Resistant</li> <li>Gasoline Resistant</li> <li>Solvent Resistant</li> <li>ASTM, D4066 PA011G30</li> <li>EU, 10/2011</li> <li>Aisin TO20141124 - P-PA66-GF30-005</li> <li>E70062</li> <li>Food approval 10/2011</li> <li>Natural Color</li> <li>Pellets</li> <li>Injection Molding</li> <li>dry cond.</li> <li>1.37 -</li> <li>1.37 -</li> <li>1.9 *</li> </ul>	<ul> <li>Antifreeze Resistant</li> <li>Gasoline Resistant</li> <li>Solvent Resistant</li> <li>ASTM, D4066 PA011G30</li> <li>EU, 10/2011</li> <li>Aisin TO20141124 - P-PA66-GF30-005</li> <li>E70062</li> <li>Food approval 10/2011</li> <li>Natural Color</li> <li>Pellets</li> <li>Injection Molding</li> <li>dry</li> <li>cond.</li> <li>Unit</li> <li>1.37</li> <li>g/cm³</li> <li>0.9</li> <li>%</li> <li>%</li> <li>1.9</li> <li>%</li> <li>%</li> </ul>	

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0.4

Poisson's Ratio (23°C)

ISO 527-2



Impact	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	11	13	kJ/m²	
-30°C	10	11	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	75	85	kJ/m²	
-30°C	65	80	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	12	13	kJ/m²	
-30°C	10	11	kJ/m²	
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	250	-	°C	
0.45 MPa, Unannealed	260	-	°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	107	*	E-6/K	
RTI Elec				UL 746
0.750 mm	120		°C	
1.50 mm	120		°C	
3.00 mm	120		°C	
RTI Imp				UL 746

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E12	-	Ohm*m	IEC 60093
Dielectric Strength (1.00 mm)	24	-	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	5			ASTM D 495
Comparative Tracking Index (3.00 mm)	600		V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746

85

85

105

115

120

120

°C

°C

°C

°C

°C

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0.750 mm

1.50mm

3.00 mm

0.750 mm

1.50 mm

3.00 mm

RTI Str

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 4	
3.00 mm	PLC 4	

Flammability	Value	Test Standard
Flammability		UL 94
0.750 mm	НВ	
1.50 mm	НВ	
3.00 mm	НВ	

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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CAUTION: Do not use Ascend Performance Materials Operations MED grades in medical applications involving implantation in the human body or contact with internal body fluids or tissues for extended periods of time.

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