Vydyne® R530J NT0724

polyamide 66

Vydyne R530J NT0724 is a natural, 30% glass filled, high flow, PA66 that is heat stabilized with an electrically neutral heat stabilizer. It is specially designed for electrical applications requiring high dielectric strength, low conductivity, and corrosion resistance.

General

Additive	• Heat Stabilizer		
Features	• Chemical Resistant	• Corrosion Resistant	• Good Colorability
	• Good Electrical Properties	• Good Mold Release	• High Flow
	• High Strength	• Organic Heat Stabilized	
Agency Rating	• ASTM, D4066 PA012G30	• ASTM, D6779 PA012G30	
Automotive Specifications	• Renault UB27b		
UL File Number	• E70062		
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.37	-	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.9	*	%	
Flow : 23°C, 2.00 mm	0.4	*	%	
Water Absorption				ISO 62
23°C, 24 hr	0.9	*	%	
Equilibrium, 23°C, 50% RH	1.9	*	%	

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)	9600	6000	MPa	ISO 178
Flexural Strength (23°C)	270	190	MPa	ISO 178
Poisson's Ratio (23°C)	0.4			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
0.750 mm	85		°C	
1.50mm	85		°C	
3.00 mm	105		°C	
RTI Str				UL 746
0.750 mm	115		°C	
1.50 mm	120		°C	
3.00 mm	120		°C	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E11	-	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
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	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		

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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