Vydyne® R530J NT0680

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne R530J NT0680 is a natural, 30% glass-fiber-reinforced, PA66 resin that is heat-stabilized with an electrically neutral heat stabilizer. It is specially designed for electrical applications and devices requiring high dielectric strength, low conductivity, and corrosion resistance. R530J NT0680 is fully compliant with EU's Restriction of Hazardous Substances (RoHS) Directive 2011/65/EU. R530J NT0680 is certified by NSF (NSF-61), ACS (France), WRAS (UK) and KTW (Germany) for cold-water contact (23°C) with drinking water system components.

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	heat stabilizer
Features	High strength Good electrical performance Good corrosion resistance Good coloring Good chemical resistance Thermal Stability Good demoulding performance
Uses	Lighting Applications Thin wall parts Electrical/Electronic Applications Engineering application Active hinge Home appliance components Connector Application in Automobile Field
Agency Ratings	ACS DGSNS4 No. 2000/232 2 ASTM D 4066 PA012G30 ASTM D 6779 PA012G30 EC 1935/2004 EU 2023/2006 FDA 21 CFR 177.1500 KTW Guidelines 3 NSF 51 NSF 61 WRAS BS6920-1: 2000 and 2014 4 Europe 10/1/2011 12:00:00 AM

UL File Number		E70062		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.37	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Lateral flow: 23°C, 2.00mm	0.90	--	%	ISO 294-4
Traffic: 23°C, 2.00mm	0.40	--	%	ISO 294-4
Water Absorption				ISO 62
23°C, 24 hr	0.90	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.9	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
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)	3.0	5.0	%	ISO 527-2
Flexural Modulus (23°C)	9600	6000	MPa	ISO 178
Flexural Stress (23°C)	270	190	MPa	ISO 178
Poisson's Ratio (23°C)	0.40	--		ISO 527
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179
-30°C	10	11	kJ/m²	ISO 179
23°C	11	13	kJ/m²	ISO 179
Charpy Unnotched Impact Strength				ISO 179
-30°C	65	80	kJ/m²	ISO 179
23°C	75	85	kJ/m²	ISO 179
Notched Izod Impact				ISO 180
-30°C	10	11	kJ/m²	ISO 180
23°C	12	13	kJ/m²	ISO 180
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	260	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 55°C, 2.00mm	2.2E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 55°C, 2.00mm	1.1E-4	--	cm/cm/°C	ISO 11359-2

Flammability	Dry	Conditioned	Test Method
Flame Rating			UL 94
0.75 mm	HB	--	UL 94
1.5 mm	HB	--	UL 94
3.0 mm	HB	--	UL 94

Injection	Dry	Unit
Drying Temperature	80	°C
Drying Time	4.0	hr
Suggested Max Regrind	25	%
Rear Temperature	280 - 310	°C
Middle Temperature	280 - 310	°C
Front Temperature	280 - 310	°C
Nozzle Temperature	280 - 310	°C
Processing (Melt) Temp	285 - 305	°C
Mold Temperature	65 - 95	°C

Recommended distributors for this material

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