

Vydyne® 21SPG1

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne 21SPG1 product description to come.

Typical Applications/End Uses:

To come

General Information				
Additive	Lubricant			
Features	Fast Molding Cycle			
	Gasoline Resistance			
	Good Abrasion Resistance			
	Good Chemical Resistance			
	Good Mold Release			
	Good Toughness			
	High Rigidity			
	High Strength			
	Lubricated			
	Oil Resistant			
	Solvent Resistant			
Uses	Bearings			
	Bushings			
	Cams			
	Connectors			
	Electrical Housing			
	Industrial Applications			
Agency Ratings	ASTM D 4066 PA0111			
	ASTM D 6779 PA0111			
	FDA 21 CFR 177.1500			
	FED L-P-410A			
	MIL M-20693B			
RoHS Compliance	RoHS Compliant			
UL File Number	E70062			
Appearance	Natural Color			
Forms	Pellets			
Processing Method	Injection Molding			
Physical	Dry	Conditioned	Unit	Test Method

Density	1.14	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	2.0	--	%	
Flow : 23°C, 2.00 mm	2.0	--	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	--	%	
Equilibrium, 23°C, 50% RH	2.4	--	%	
Outdoor Suitability	f2	--		UL 746C
Thermal	Dry	Conditioned	Unit	Test Method
RTI Elec				UL 746
0.710 mm	130	--	°C	
1.50 mm	130	--	°C	
3.00 mm	130	--	°C	
RTI Imp				UL 746
0.710 mm	75.0	--	°C	
1.50 mm	75.0	--	°C	
3.00 mm	75.0	--	°C	
RTI Str				UL 746
0.710 mm	85.0	--	°C	
1.50 mm	85.0	--	°C	
3.00 mm	85.0	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity (0.750 mm)	1.0E+13	--	ohms · cm	IEC 60093
Dielectric Strength (1.00 mm)	26	--	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	PLC 5	--		ASTM D495
Comparative Tracking Index (3.00 mm)	600	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.710 mm	PLC 0	--		
1.50 mm	PLC 0	--		
3.00 mm	PLC 0	--		
High Voltage Arc Tracking Rate (HVTR)	PLC 0	--		UL 746
Hot-wire Ignition (HWI)				UL 746
0.710 mm	PLC 4	--		
1.50 mm	PLC 3	--		
3.00 mm	PLC 2	--		
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94

0.710 mm	V-2	--		
1.50 mm	V-2	--		
3.00 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.710 mm	960	--	°C	
1.50 mm	960	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.710 mm	850	--	°C	
1.50 mm	850	--	°C	
3.00 mm	850	--	°C	
Oxygen Index	26	--	%	ISO 4589-2
Injection	Dry	Unit		
Drying Temperature	< 70.0		°C	
Drying Time	1.0 to 3.0		hr	
Suggested Max Regrind	50		%	
Rear Temperature	260 to 280		°C	
Middle Temperature	270 to 285		°C	
Front Temperature	280 to 290		°C	
Nozzle Temperature	280 to 300		°C	
Processing (Melt) Temp	285 to 300		°C	
Mold Temperature	65.0 to 95.0		°C	

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