

Vydyne® 21SPG1 polyamide 66



Vydyne 21SPG1 product description to come.

To come

Typical Applications/End Uses:

General				
Material Status	• Commercial: Active			
Availability	• Asia Pacific	• Europe	• North America	
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			
Automotive Specifications	• ASTM D4000 PA111 • ASTM D4066 PA0111 • CHRYSLER MS-DB41 CPN1938 Color: Natural • CHRYSLER MS-DB41 CPN1948 Color: Black	• FEDERAL LP410A • FORD WSK-M4D647-A Color: Black • FORD WSK-M4D647-A Color: Natural • GM GMP.PA66.005	• GM GMP.PA66.005 Color: Black • SAE J1639 PA0121 Z6 Color: Black • SAE J1639 PA0121 Z6 Color: Natural	
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 : 73°F, 0.0787 in	2.0	--	%	
Flow : 73°F, 0.0787 in	2.0	--	%	
Water Absorption (73°F, 24 hr)	1.2	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	2.4	--	%	ISO 62

Thermal	Dry	Conditioned	Unit	Test Method
RTI Elec				UL 746
0.0280 in	266	--	°F	
0.0591 in	266	--	°F	
0.118 in	266	--	°F	
RTI Imp				UL 746
0.0280 in	167	--	°F	
0.0591 in	167	--	°F	
0.118 in	167	--	°F	
RTI Str				UL 746
0.0280 in	185	--	°F	
0.0591 in	185	--	°F	
0.118 in	185	--	°F	
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (0.0394 in)	660	--	V/mil	IEC 60243
Arc Resistance (0.118 in)	PLC 5	--		ASTM D495
Comparative Tracking Index (0.118 in)	600	--	V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.0280 in	PLC 0	--		
0.0591 in	PLC 0	--		
0.118 in	PLC 0	--		
High Voltage Arc Tracking Rate (HVTR)	PLC 0	--		UL 746
Hot-wire Ignition (HWI)				UL 746
0.0280 in	PLC 4	--		
0.0591 in	PLC 3	--		
0.118 in	PLC 3	--		

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.0280 in	V-2	--		
0.0591 in	V-2	--		
0.118 in	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.0280 in	1470	--	°F	
0.0591 in	1470	--	°F	
0.118 in	1710	--	°F	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.0280 in	1290	--	°F	
0.0591 in	1290	--	°F	
0.118 in	1290	--	°F	
Oxygen Index	26	--	%	ISO 4589-2
Injection		Dry Unit		
Drying Temperature		< 158 °F		
Drying Time		1.0 to 3.0 hr		
Suggested Max Regrind		50 %		
Rear Temperature		500 to 536 °F		
Middle Temperature		518 to 545 °F		
Front Temperature		536 to 554 °F		
Nozzle Temperature		536 to 572 °F		
Processing (Melt) Temp		545 to 572 °F		
Mold Temperature		149 to 203 °F		

Notes

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