

Vydyne® 20NSP1

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne 20NSP1 product description to come.

Typical Applications/End Uses:

To come

General Information				
UL YellowCard		E70062-100877624		
Additive		Lubricant		
		Nucleating Agent		
Features		Fast Molding Cycle		
		General Purpose		
		Good Mold Release		
		Good Stiffness		
		High Rigidity		
		Lubricated		
		Nucleated		
Uses		Bearings		
		Cams		
		Connectors		
		Fasteners		
		General Purpose		
		Housings		
		Industrial Applications		
Agency Ratings		ASTM D 4066 PA0131		
		ASTM D 6779 PA0131		
		FED L-P-410A		
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	1.6	--	%	
Flow : 23°C, 2.00 mm	1.4	--	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	--	%	
Equilibrium, 23°C, 50% RH	2.4	--	%	
Outdoor Suitability	f2	--		UL 746C
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3800	2500	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	95.0	60.0	MPa	
Break, 23°C	75.0	50.0	MPa	
Tensile Strain (Yield, 23°C)	5.0	15	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	13	20	%	ISO 527-2
Flexural Modulus (23°C)	3200	1300	MPa	ISO 178
Flexural Strength (23°C)	100	35.0	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	5.0	kJ/m ²	
23°C	6.0	15	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Notched Izod Impact Strength				ISO 180
-30°C	5.0	5.0	kJ/m ²	
23°C	6.0	15	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	230	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	90.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	1.0E-4	--	cm/cm/°C	
Transverse : 23 to 55°C, 2.00 mm	1.0E-4	--	cm/cm/°C	
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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