

Vydyne® 22HSP

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne 22HSP product description to come.

General Information				
Additive	Lubricant			
Features	Fast Molding Cycle			
	Gasoline Resistance			
	General Purpose			
	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			
	Housings			
	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	2.2	--	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	--	%	
Equilibrium, 23°C, 50% RH	2.4	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3100	1800	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield, 23°C	85.0	55.0	MPa	
Break, 23°C	55.0	40.0	MPa	
Tensile Strain (Yield, 23°C)	5.0	20	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	25	> 50	%	ISO 527-2
Flexural Modulus (23°C)	2900	1000	MPa	ISO 178
Flexural Strength (23°C)	95.0	30.0	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	7.0	kJ/m ²	
23°C	6.0	20	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	7.0	kJ/m ²	
23°C	6.0	20	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C	1.0E-4	--	cm/cm/°C	
Transverse : 23 to 55°C	1.0E-4	--	cm/cm/°C	
RTI Elec				UL 746
0.710 mm	140	--	°C	

1.50 mm	140	--	°C	
3.00 mm	140	--	°C	
RTI Imp				UL 746
0.710 mm	95.0	--	°C	
1.50 mm	110	--	°C	
3.00 mm	110	--	°C	
RTI Str				UL 746
0.710 mm	115	--	°C	
1.50 mm	125	--	°C	
3.00 mm	125	--	°C	
Electrical	Dry	Conditioned	Unit	Test Method
Arc Resistance (3.00 mm)	PLC 6	--		ASTM D495
Comparative Tracking Index (3.00 mm)	400 to 599	--	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 4	--		
3.00 mm	PLC 4	--		
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	825	--	°C	
1.50 mm	825	--	°C	
3.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.710 mm	700	--	°C	
1.50 mm	700	--	°C	
3.00 mm	700	--	°C	
Oxygen Index	24	--	%	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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