

Vydyne® 22HSP BK

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne 22HSP BK product description to come.

Typical Applications/End Uses:

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	Black
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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