

Vydyne® 22HSP BK polyamide 66



Vydyne 22HSP BK product description to come.

To come

Typical Applications/End Uses:

General	
Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Asia Pacific Europe North America
Additive	<ul style="list-style-type: none"> Lubricant
Features	<ul style="list-style-type: none"> Abrasion Resistant Chemical Resistant Fast Molding Cycle Gasoline Resistant General Purpose Good Mold Release Good Toughness High Rigidity High Strength Lubricated Oil Resistant Solvent Resistant
Uses	<ul style="list-style-type: none"> Bearings Bushings Cams Connectors Housings Industrial Applications
Agency Ratings	<ul style="list-style-type: none"> ASTM D 4066 PA0121 ASTM D 6779 PA0121 FED L-P 410A MIL M-20693B
RoHS Compliance	<ul style="list-style-type: none"> RoHS Compliant
Automotive Specifications	<ul style="list-style-type: none"> FORD WSK-M4D647-A FORD WSK-M4D647-A Color: Black GM GMP.PA66.005 GM GMP.PA66.005 Color: Black GM GMP.PA66.018 Color: Black GM GMW15702 GM QK 002921 NISSAN PA66-INX-1 SAE J1639 PA0121 Z6 SAE J1639 PA0121 Z6 Color: Black
UL File Number	<ul style="list-style-type: none"> E70062
Appearance	<ul style="list-style-type: none"> Black
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> 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 (23°C, 24 hr)	1.2	--	%	ISO 62
Water Absorption (Equilibrium, 23°C, 50% RH)	2.4	--	%	ISO 62

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3100	1800	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	85.0	55.0	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	55.0	40.0	MPa	ISO 527-2
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	

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Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature 0.45 MPa, Unannealed	200	--	°C	ISO 75-2/B
Heat Deflection Temperature 1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE - Flow (23 to 55°C)	1.0E-4	--	cm/cm/°C	ISO 11359-2
CLTE - Transverse (23 to 55°C)	1.0E-4	--	cm/cm/°C	ISO 11359-2
RTI Elec				UL 746
0.71 mm	140	--	°C	
1.5 mm	140	--	°C	
3.0 mm	140	--	°C	
RTI Imp				UL 746
0.71 mm	95.0	--	°C	
1.5 mm	110	--	°C	
3.0 mm	110	--	°C	
RTI Str				UL 746
0.71 mm	115	--	°C	
1.5 mm	125	--	°C	
3.0 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
0.71 mm	PLC 0	--		
1.5 mm	PLC 0	--		
3.0 mm	PLC 0	--		
High Voltage Arc Tracking Rate (HVTR)	PLC 0	--		UL 746
Hot-wire Ignition (HWI)				UL 746
0.71 mm	PLC 4	--		
1.5 mm	PLC 4	--		
3.0 mm	PLC 4	--		

Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (2.00 mm, Self-Extinguishing)	0.0	--	mm/min	ISO 3795
Flame Rating				UL 94
0.71 mm	V-2	--		
1.5 mm	V-2	--		
3.0 mm	V-2	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.71 mm	825	--	°C	
1.5 mm	825	--	°C	
3.0 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.71 mm	700	--	°C	
1.5 mm	700	--	°C	
3.0 mm	700	--	°C	
Oxygen Index	24	--	%	ISO 4589-2
Injection		Dry Unit		
Drying Temperature	< 70 °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 to 95 °C			

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Notes

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