

Vydyne® GW350 BK

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

General Information			
Additive	Halogen		
	Lubricant		
Features	Ductile		
	Flame Retardant		
	Good Crack Resistance		
	Good Mold Release		
	Good Toughness		
	Halogenated		
	High Elongation		
	Ignition Resistant		
	Low Density		
	Lubricated		
Uses	Appliances		
	Automotive Electronics		
	Bobbins		
	Connectors		
	Electrical Housing		
	Electrical Parts		
	Electrical/Electronic Applications		
	Fasteners		
	Industrial Applications		
	Lighting Applications		
	Living Hinges		
RoHS Compliance	RoHS Compliant		
	UL File Number		
	E70062		
	Appearance		
	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method

Density	1.27	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 23°C, 2.00 mm	1.8	%	
Flow : 23°C, 2.00 mm	1.3	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.1	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (Break, 23°C)	83.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	17	%	ISO 527-2
Flexural Modulus (23°C)	3340	MPa	ISO 178
Poisson's Ratio	0.40		ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.4	kJ/m ²	ISO 179/1eA
Notched Izod Impact Strength (23°C)	4.4	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	°C	ISO 75-2/A
Melting Temperature	263	°C	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.00 mm)	14	kV/mm	IEC 60243
Arc Resistance (3.00 mm)	PLC 5		ASTM D495
Comparative Tracking Index (3.00 mm)	250 to 399	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746
0.400 mm	PLC 0		
0.750 mm	PLC 0		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR) (3.00 mm)	PLC 4		UL 746
Hot-wire Ignition (HWI)			UL 746
0.400 mm	PLC 4		
0.750 mm	PLC 4		
1.50 mm	PLC 0		
3.00 mm	PLC 0		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.400 mm	V-2		
0.750 mm	V-2		
1.50 mm	V-2		
3.00 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.400 mm	960	°C	
0.750 mm	960	°C	

1.50 mm	960	°C
3.00 mm	960	°C
Glow Wire Ignition Temperature		IEC 60695-2-13
0.400 mm	930	°C
0.750 mm	900	°C
1.50 mm	850	°C
3.00 mm	825	°C
Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0	hr
Suggested Max Regrind	50	%
Rear Temperature	260 to 290	°C
Middle Temperature	260 to 290	°C
Front Temperature	260 to 290	°C
Nozzle Temperature	260 to 290	°C
Processing (Melt) Temp	270 to 285	°C
Mold Temperature	65.0 to 95.0	°C

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