

# Vydyne® R862H BK0676

Polyamide 66

Ascend Performance Materials Operations LLC

Message:

Vydyne R862H BK0676 is a general-purpose, glass fiber and mineral-reinforced, heat-stabilized PA66 resin. Available in black, this product is also lubricated for improved flow and offers superior surface appearance.

Glass fiber and mineral-reinforced Vydyne resins provide higher heat distortion temperature, resistance to creep and better dimensional stability when compared with unreinforced PA66. These products have good chemical resistance to a broad range of chemicals including gasoline, hydraulic fluids and most solvents.

Typical Applications/End Uses:

Vydyne R862H BK0676 can be successfully used in a wide range of injection-molding engineering applications. Typical parts include lower cowl top covers, radiator shrouds, fans and mirror brackets, cylinder head covers; and industrial applications such as gears, bearing shells, covers and housings.

General Information				
Filler / Reinforcement		Glass Fiber Mineral		
Additive		Heat Stabilizer Lubricant		
Features		Good Creep Resistance Good Dimensional Stability Good Flow Heat Stabilized Lubricated		
Uses		Automotive Under the Hood		
Agency Ratings		ASTM D 4066 PA012R40 ASTM D 6779 PA012R40		
UL File Number		E70062		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.47	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.1	--	%	
Flow : 23°C, 2.00 mm	0.40	--	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method

Tensile Modulus (23°C)	10500	7800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	149	98.0	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.2	2.2	%	ISO 527-2
Flexural Modulus (23°C)	10800	5600	MPa	ISO 178
Flexural Stress (23°C)	220	120	MPa	ISO 178
Poisson's Ratio	0.40	--		ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	6.0	6.0	kJ/m <sup>2</sup>	
23°C	6.0	10	kJ/m <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179
-30°C	46	50	kJ/m <sup>2</sup>	
23°C	49	48	kJ/m <sup>2</sup>	
Notched Izod Impact Strength				ISO 180
-30°C	6.0	7.0	kJ/m <sup>2</sup>	
23°C	7.0	11	kJ/m <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	234	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	1.9E-5	--	cm/cm/°C	
Transverse : 23 to 55°C, 2.00 mm	6.7E-5	--	cm/cm/°C	
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	4.0		hr	
Suggested Max Regrind	25		%	
Rear Temperature	280 to 310		°C	
Middle Temperature	280 to 310		°C	
Front Temperature	280 to 310		°C	
Nozzle Temperature	280 to 310		°C	
Processing (Melt) Temp	285 to 305		°C	
Mold Temperature	65.0 to 95.0		°C	

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