

Vydyne® R862H BK0676

polyamide 66



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

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer	• Lubricant	
Features	• Creep Resistant • Heat Stabilized	• Good Dimensional Stability • Lubricated	• Good Flow
Agency Rating	• ASTM, D4066 PA114R40	• ASTM, D6779 PA084R40	
Automotive Specifications	• HYUNDAI MS211-36 Type C		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.47	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.1	*	%	
Flow : 23°C, 2.00 mm	0.4	*	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	1.5	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	10500	7800	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	149	98	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 Strength (23°C)	220	120	MPa	ISO 178
Poisson's Ratio (23°C)	0.4	-	-	ISO 527-2

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	6	10	kJ/m ²	
-30°C	6	6	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

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+23°C	49	48	kJ/m²	
-30°C	46	50	kJ/m²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	7	11	kJ/m²	
-30°C	6	7	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	234	-	°C	
0.45 MPa, Unannealed	255	-	°C	
Melting Temperature	260	*	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	18.5	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	66.9	*	E-6/K	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Rear Temperature	280 - 310	°C
Middle Temperature	280 - 310	°C
Front Temperature	280 - 310	°C
Nozzle temperature	280 - 310	°C
Processing (Melt) Temperature	285 - 305	°C
Mold Temperature	65 - 95	°C

