

**Product Texts**

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.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	10500 / 7800	MPa	ISO 527
<sup>[C]</sup> Stress at break	149 / 98	MPa	ISO 527
<sup>[C]</sup> Strain at break	2.2 / 2.2	%	ISO 527
Flexural modulus, 23°C	10800 / 5600	MPa	ISO 178
Flexural strength	220 / 120	MPa	ISO 178
<sup>[C]</sup> Charpy impact strength, +23°C	49 / 48	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	46 / 50	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	6 / 10	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	6 / 6	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C	7 / 11	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength	6 / 7	kJ/m <sup>2</sup>	ISO 180/1A
Temperature	-30	°C	-

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	260 / *	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	234 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	255 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	18.5 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	66.9 / *	E-6/K	ISO 11359-1/-2

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
Water absorption	1.5 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	1.5 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1470 / -	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	285 - 305	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	280 - 310	°C	-
Zone 2	280 - 310	°C	-
Zone 3	280 - 310	°C	-
Nozzle temperature	280 - 310	°C	-

**Characteristics**

**Vydyne® R862H BK0676**

PA66-(GF+MX)

Ascend

**Processing**

Injection Molding

**Delivery form**

Pellets, Black

**Additives**

Lubricants

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Creep Resistance

**Chemical Resistance**

General Chemical Resistance, Solvent Resistance

**Applications**

Automotive, General Purpose

**Regional Availability**

North America, Europe, Asia Pacific