+135-3858-6433 (GuangDong)
+188-1699-6168 (ShangHai)
+852-6957-5415 (HongKong)

Vydyne® BG5H

polyamide 6

Vydyne BG5H is a heat stabilized 25% glass fiber reinforced PA6 for injection molded applications.

General

Regional Availability	• North America	• Europe
Additive	• Heat Stabilizer	• Release agent
Features	• Good Stiffness	• Good Strength
Agency Rating	• ISO, 1043 PA6 GF25	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	dry	cond.	Unit	Test Standard
Density	1.31	-	g/cm³	ISO 1183
Water Absorption, Saturation, 23°C	6.5		%	ISO 62

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	7900	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	150	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.5	-	%	ISO 527-2
Flexural Modulus (23°C)	7800	-	MPa	ISO 178
Flexural Strength (23°C)	190	-	MPa	ISO 178

Impact	dry	cond.	Unit	Test Standard
Charpy Unnotched Impact Strength, +23°C	50	-	kJ/m²	ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
+23°C	10	-	kJ/m²	
-40°C	7	-	kJ/m²	

Thermal	dry	cond.	Unit	Test Standard
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	31	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	91	*	E-6/K	
RTI Elec				UL 746
0.750 mm	65		°C	
1.50 mm	65		°C	
3.00 mm	65		°C	
RTI Imp				UL 746
0.750 mm	65		°C	

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1.50mm	65		°C	
3.00 mm	65		°C	
RTI Str				UL 746
0.750 mm	65		°C	
1.50 mm	65		°C	
3.00 mm	65		°C	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E14	-	Ohm*m	IEC 60093
Comparative Tracking Index (3.00 mm)	500		V	IEC 60112

Flammability	dry	cond.	Unit	Test Standard
Flammability				UL 94
0.750 mm	HB		-	
1.50 mm	HB		-	
3.00 mm	HB		-	
Glow Wire Flammability Index				IEC 60695-2-12
2.00 mm	650		°C	
Oxygen index	24	*	%	EN ISO 4589-2

Injection	Value	Unit
Drying Temperature	75 - 85	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	230 - 240	°C
Middle Temperature	240 - 250	°C
Front Temperature	240 - 270	°C
Processing (Melt) Temperature	240 - 270	°C
Mold Temperature	60 - 80	°C