

Vydyne® B 30 GF BK G/W

polyamide 6



Vydyne B 30 GF BK G/W is a standard flow, 30% glass-fiber reinforced PA 6 resin. This product is also lubricated to improve machine feed and flow. It is suitable for high-thickness parts.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Lubricant		
Features	• Balanced Stiffness/Toughness • Fast Molding Cycle • Good Impact Strength • Good Rigidity • Good Surface Finish • Halogen Content, None • Homopolymer • Non-Corrosive	• Bromine Free • General Purpose • Good Mold Release • Good Stiffness • Good Tensile Strength • High Crystallinity • Low Viscosity • Nucleated	• Chemical Resistant • Good Color Stability • Good Processability • Good Strength • Good Toughness • High Flow • Lubricated • Thermal Stability
Agency Rating	• ISO, 1043 PA6 GF30		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.35	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.8	*	%	
Flow : 23°C, 2.00 mm	0.4	*	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	2.1	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	8800	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	160	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.5	-	%	ISO 527-2

Impact	dry	cond.	Unit	Test Standard
Notched Izod Impact Strength, +23°C	9	-	kJ/m ²	ISO 180/1A

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Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	205	-	°C	
0.45 MPa, Unannealed	215	-	°C	
Melting Temperature	220	*	°C	ISO 11357-3

Electrical	Value	Unit	Test Standard
Comparative Tracking Index (3.00 mm)	575	V	IEC 60112

Flammability	Value	Unit	Test Standard
Flammability			UL 94
1.60 mm	HB	-	
3.20 mm	HB	-	
Glow Wire Flammability Index			IEC 60695-2-12
2.00 mm	650	°C	

Injection	Value	Unit
Drying Temperature	80 - 110	°C
Drying Time	3 - 4	h
Rear Temperature	230 - 255	°C
Middle Temperature	235 - 260	°C
Front Temperature	240 - 260	°C
Nozzle temperature	240 - 260	°C
Processing (Melt) Temperature	240 - 260	°C
Mold Temperature	70 - 95	°C

