

Vydyne® A 30 GF BK WR

polyamide 66



Vydyne A 30 GF BK WR is standard flow, 30% glass-fiber reinforced PA66 resin. Suitable for use with water up to 85 C, this product is also lubricated for improved machine feed and flow.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Additive	• Heat Stabilizer	• Lubricant	
Features	• Balanced Stiffness/Toughness • General Purpose • Good Dimensional Stability • Good Impact Strength • Good Strength • Heat Aging Resistant • Lubricated • Thermal Stability	• Bromine Free • Good Color Stability • Good Flow • Good Processability • Good Tensile Strength • Heat Stabilized • Medium Viscosity	• Chemical Resistant • Good Colorability • Good Heat Resistance • Good Rigidity • Halogen Content, None • Homopolymer • Non-Corrosive
Agency Rating	• ISO, 1043 PA66 GF30		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	dry	cond.	Unit	Test Standard
Density	1.36	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.7	*	%	
Flow : 23°C, 2.00 mm	0.3	*	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	1.7	*	%	

Mechanical	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	9200	-	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	11	-	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	240	-	°C	
0.45 MPa, Unannealed	255	-	°C	
Melting Temperature	260	*	°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	270 - 295	°C
Middle Temperature	275 - 295	°C
Front Temperature	280 - 300	°C
Nozzle temperature	280 - 300	°C
Processing (Melt) Temperature	280 - 295	°C
Mold Temperature	70 - 95	°C

