

Vydyne® B 30 GF BK EM HF/F

Ascend Performance Materials Operations LLC - Polyamide 6

General Information
Product Description

Vydyne B 30 GF BK EM HF/F is a high flow, 30 % glass-fiber reinforced PA6 resin. This product is also lubricated for improve machine feed and flow and nucleated for fast cycles.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Lubricant • Mold Release • Nucleating Agent
Features	<ul style="list-style-type: none"> • Balanced Stiffness/Toughness • Bromine Free • Chemical Resistant • Fast Molding Cycle • General Purpose • Good Color Stability • Good Impact Resistance • Good Mold Release • Good Processability • Good Rigidity • Good Stiffness • Good Strength • Good Surface Finish • Good Tensile Strength • Good Thermal Stability • Good Toughness • Halogen Free • High Flow • High Viscosity • Highly Crystalline • Homopolymer • Lubricated • Non-Corrosive • Nucleated
Agency Ratings	• ISO 1043 PA6 GF30
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA6-GF30

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.34	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 73°F, 0.0787 in	0.90	%	
Flow : 73°F, 0.0787 in	0.40	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.9	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	1.33E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	22500	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (73°F)	7.1	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	401	°F	ISO 75-2/A
Melting Temperature	432	°F	ISO 11357-3
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (0.118 in)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		HB	
0.13 in		HB	
Glow Wire Flammability Index (0.08 in)	1200	°F	IEC 60695-2-12

Processing Information
Injection
Nominal Value Unit


Drying Temperature	176 to 230 °F
Drying Time	3.0 to 4.0 hr
Rear Temperature	446 to 491 °F
Middle Temperature	455 to 500 °F
Front Temperature	464 to 500 °F
Nozzle Temperature	464 to 500 °F
Processing (Melt) Temp	464 to 500 °F
Mold Temperature	158 to 203 °F

Notes

¹ Typical properties: these are not to be construed as specifications.

