Vydyne® B 30 GF BK G/W

Ascend Performance Materials Operations LLC - *Polyamide 6*

General Information

Product Description

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			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Lubricant	• Nucleating Agent	
Features	• 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 • Highly Crystalline • Homopolymer • Low Viscosity • 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	1.35	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 73°F, 0.0787 in	0.80	%	
Flow : 73°F, 0.0787 in	0.40	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	2.1	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.28E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	23200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	4.3	ft·lb/in²	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	428	°F	ISO 11357-3
Electrical	**Nominal Value**	**Unit**	**Test Method**
Comparative Tracking Index (0.118 in)	575	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.