

Vydyne® A 1515 GFB BK EST KW2

 Ascend Performance Materials Operations LLC - *Polyamide 66*
General Information
Product Description

Vydyne A 1515 GFB BK EST KW2 is standard flow, organic heat stabilized, 15% glass-beads and 15% glass-fiber reinforced PA66 resin. Available in black, this product is also lubricated for improved machine feed and flow. Glass-beads provide the molded parts with good surface finish and low warpage, while glass-fiber increase stiffness and strength.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Bead\Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer • Lubricant
Features	• Chemical Resistant • Good Dimensional Stability • Heat Stabilized • Gasoline Resistant • Good Flow • Heat Stabilized - Organic • General Purpose • Good Heat Resistance • Lubricated
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding
Resin ID	• PA66-(GF+GB)30

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	0.80	--	%	
Flow : 73°F, 0.0787 in	0.60	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	928000	544000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	16000	9860	psi	ISO 527-2
Tensile Strain (Break, 73°F)	2.5	5.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength (73°F)	2.6	4.0	ft·lb/in ²	ISO 180/1A
Unnotched Izod Impact Strength (73°F)	14	21	ft·lb/in ²	ISO 180/1U
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	473	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	464	--	°F	ISO 75-2/A
Melting Temperature	500	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (0.118 in)	575	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.0787 in)	4.0	--	in/min	ISO 3795
Flame Rating				UL 94
0.06 in	HB	--		
0.12 in	HB	--		

Processing Information

Injection	Dry Unit
Drying Temperature	185 to 203 °F
Drying Time	> 3.0 hr
Rear Temperature	446 to 500 °F
Middle Temperature	446 to 500 °F



Front Temperature	446 to 500 °F
Nozzle Temperature	446 to 500 °F
Processing (Melt) Temp	446 to 500 °F
Mold Temperature	176 to 194 °F

Notes

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

