

Vydyne® A/B 15 GF BK KW EM

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

Vydyne A/B 15 GF BK KW EM is standard flow, organic heat stabilized, low impact modified 15% glass-fiber reinforced PA66/PA6 resin. Available in black, this product is specifically designed for blow molding applications.

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• Heat Stabilizer • Impact Modifier • Lubricant
Features	• Chemical Resistant • Good Flow • Heat Stabilized - Organic • Gasoline Resistant • Good Heat Resistance • Impact Modified • General Purpose • Heat Stabilized • Lubricated
Appearance	• Black
Forms	• Pellets
Processing Method	• Blow Molding
Resin ID	• PA66-I-GF15

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.22	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	0.30	--	%	
Flow : 73°F, 0.0787 in	0.30	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.8	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	798000	508000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	16700	10200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	3.0	4.5	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact Strength (73°F)	5.2	9.5	ft·lb/in ²	ISO 180/1A
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	446	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	410	--	°F	ISO 75-2/A
Melting Temperature	500	--	°F	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (0.118 in)	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
0.030 in	HB	--		
0.06 in	HB	--		
0.12 in	HB	--		

Processing Information

Injection	Dry Unit
Drying Temperature	176 to 212 °F
Drying Time	> 3.0 hr
Rear Temperature	491 to 554 °F
Middle Temperature	491 to 554 °F
Front Temperature	491 to 554 °F
Nozzle Temperature	491 to 554 °F
Processing (Melt) Temp	491 to 554 °F
Mold Temperature	158 to 194 °F

