Vydyne® A 15 GB NT KW2

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne A 15 GB NT KW2 is standard flow, organic heat stabilized, 15% glass-beads reinforced PA66 resin. Available in natural, this product is also lubricated for improved machine feed and flow. Glass-beads provide the molded parts with good surface finish and low warpage.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Glass Bead, 15% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Chemical Resistant • Gasoline Resistant • General Purpose	• Good Dimensional Stability • Good Flow • Good Heat Resistance	• Heat Stabilized • Heat Stabilized - Organic • Lubricated
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA66-GB15		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.23	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	1.4	--	%	
Flow : 73°F, 0.0787 in	1.2	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	2.2	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (73°F)	551000	232000	psi	ISO 527-1
Tensile Stress (Break, 73°F)	9430	5080	psi	ISO 527-2
Tensile Strain (Break, 73°F)	6.5	15	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	1.7	3.8	ft·lb/in²	ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	437	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	221	--	°F	ISO 75-2/A
Melting Temperature	500	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Comparative Tracking Index (0.118 in)	600	--	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	500 to 554	°F
Middle Temperature	500 to 554	°F
Front Temperature	500 to 554	°F

Nozzle Temperature	500 to 554 °F
Processing (Melt) Temp	500 to 554 °F
Mold Temperature	158 to 194 °F

Notes

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