Vydyne® LUB A 30 FC BK TF13 SI KW

Ascend Performance Materials Operations LLC - *Polyamide 66*

General Information

Product Description

Vydyne LUB A 30 FC BK TF13 SI KW is standard flow 30% carbon-fiber reinforced, 13% PTFE 1% silicone lubricated PA66 resin. Available in black, it is specifically designed for high stiffness and strength. This product also has a low coefficient of friction and is electrically conductive.

General			
Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• North America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer	• Lubricant	• Slip
Features	• Abrasion Resistant • Chemical Resistant • Gasoline Resistant • General Purpose	• Good Flow • Good Stiffness • Heat Stabilized • Heat Stabilized - Organic	• High Tensile Strength • Lubricated • Slip
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		
Resin ID	• PA66-CF30		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.35	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 73°F, 0.0787 in	0.30	--	%	
Flow : 73°F, 0.0787 in	0.10	--	%	
Water Absorption (Equilibrium, 73°F, 50% RH)	1.7	--	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (73°F)	2.97E+6	2.23E+6	psi	ISO 527-1
Tensile Stress (Break, 73°F)	29700	23200	psi	ISO 527-2
Tensile Strain (Break, 73°F)	1.5	3.0	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Notched Izod Impact Strength (73°F)	4.3	5.7	ft·lb/in²	ISO 180/1A
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	473	--	°F	ISO 75-2/A
Melting Temperature	500	--	°F	ISO 11357-3
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Volume Resistivity (0.0394 in)	1.0E+4	--	ohms·cm	IEC 60093
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
0.06 in	HB	--		
0.12 in	HB	--		

Processing Information

Injection	Dry	Unit
Drying Temperature	194 to 230	°F
Drying Time	> 3.0	hr
Rear Temperature	518 to 536	°F
Middle Temperature	518 to 563	°F
Front Temperature	518 to 563	°F

Nozzle Temperature	518 to 563 °F
Processing (Melt) Temp	518 to 563 °F
Mold Temperature	158 to 194 °F

Notes

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