

Plaslube® PA6/6 AF

Polyamide 66
Techmer Engineered Solutions

Message:

Plaslube® PA6/6 AF is a Polyamide 66 (Nylon 66) product filled with aramid fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Heat Stabilizer
- Lubricated
- Wear Resistant

General Information			
Filler / Reinforcement	Aramid Fiber		
Additive	Heat Stabilizer		
	Lubricant		
Features	Good Wear Resistance		
	Heat Stabilized		
	Low Friction		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.90	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	110	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	3790	MPa	ASTM D790
Flexural Strength	153	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.26		
vs. Steel - Static	0.21		
Wear Factor	300	10 ⁻⁸ mm ³ /N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	232	°C	
1.8 MPa, Unannealed	177	°C	
Melting Temperature	259	°C	
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			

1. Method A (Short-Time)

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