

Plaslube® PA6/6 AF10

Polyamide 66

Techmer Engineered Solutions

Message:

Plaslube® PA6/6 AF10 is a Polyamide 66 (Nylon 66) product filled with 10% aramid fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Lubricated

Wear Resistant

General Information			
Filler / Reinforcement	Aramid Fiber, 10% Filler by Weight		
Additive	Lubricant		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.80	%	ASTM D955
Water Absorption (24 hr)	0.85	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	91.7	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	3520	MPa	ASTM D790
Flexural Strength	138	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.26		
vs. Steel - Static	0.21		
Wear Factor	120	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	43	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	255	°C	
CLTE - Flow	6.7E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149

NOTE

1. Method A (Short-Time)

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