

# Plaslube® PA12 TS18

Polyamide 12  
Techmer Engineered Solutions

Message:

Plaslube® PA12 TS18 is a Polyamide 12 (Nylon 12) product. It can be processed by injection molding and is available in North America. Primary characteristic: lubricated.

General Information			
Additive	PTFE Lubricant (18%)		
	Silicone Lubricant (2%)		
Features	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.5	%	ASTM D955
Water Absorption (24 hr)	0.50	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	58.6	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1650	MPa	ASTM D790
Flexural Strength	68.9	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.080		
vs. Steel - Static	0.060		
Wear Factor	12	10 <sup>-8</sup> mm <sup>3</sup> /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	37	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	132	°C	
1.8 MPa, Unannealed	77.8	°C	
CLTE - Flow	1.3E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	26	kV/mm	ASTM D149

## NOTE

1. Method A (Short-Time)

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### Recommended distributors for this material

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