

Plaslube® PA6 TL10

Polyamide 6
Techmer Engineered Solutions

Message:

Plaslube® PA6 TL10 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.
Characteristics include:
Heat Stabilizer
Lubricated

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant (10%)		
Features	Heat Stabilized		
	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)	1.7	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	64.8	MPa	ASTM D638
Tensile Elongation (Break)	9.5	%	ASTM D638
Flexural Modulus	2690	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.20		
vs. Steel - Static	0.14		
Wear Factor	100	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	160	°C	
1.8 MPa, Unannealed	76.7	°C	
CLTE - Flow	8.5E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149

NOTE

1. Method A (Short-Time)

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