

# Plaslube® PA6 GL10

Polyamide 6  
Techmer Engineered Solutions

Message:

Plaslube® PA6 GL10 is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.  
Characteristics include:  
Flame Rated  
Lubricated

General Information			
Additive	Graphite Powder Lubricant (10%)		
Features	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	72.4	MPa	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	3450	MPa	ASTM D790
Flexural Strength	100	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.35		
vs. Steel - Static	0.30		
Wear Factor	180	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	188	°C	
1.8 MPa, Unannealed	82.2	°C	
Melting Temperature	220	°C	
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	82.2	°C
Drying Time	4.0	hr
Rear Temperature	260 to 304	°C
Middle Temperature	260 to 304	°C
Front Temperature	260 to 304	°C
Processing (Melt) Temp	243 to 271	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.00 to 0.345	MPa
Screw Speed	30 to 60	rpm

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#### Recommended distributors for this material

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