

**Plaslube® PA6/6 AF**

 Techmer Polymer Modifiers - *Polyamide 66*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Aramid Fiber
Additive	• Heat Stabilizer      • Lubricant
Features	• Heat Stabilized      • Lubricated • Low Friction          • Wear Resistant
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.20		ASTM D792
Molding Shrinkage - Flow (0.125 in)	9.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield)	16000	psi	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	550000	psi	ASTM D790
Flexural Strength	22200	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.26		
vs. Steel - Static	0.21		
Wear Factor	150	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	ASTM D3702
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (73°F, 0.125 in)	1.2	ft·lb/in	ASTM D256
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Rockwell Hardness (R-Scale)	100		ASTM D785
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	450	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	350	°F	ASTM D648
Melting Temperature	499	°F	
CLTE - Flow	3.5E-5	in/in/°F	ASTM D696
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	500	V/mil	ASTM D149
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating	HB		UL 94

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
