

**Plaslube® PA6/6 AF5**

Techmer Polymer Modifiers - Polyamide 66

**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Aramid Fiber, 10% Filler by Weight
Additive	• Lubricant
Features	• Low Friction      • Lubricated      • Wear Resistant
Appearance	• Colors Available      • 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	1.14		ASTM D792
Molding Shrinkage - Flow (0.125 in)	8.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.85	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Break)	11100	psi	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	450000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.26		
vs. Steel - Static	0.21		
Wear Factor	60	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)	0.50	ft·lb/in	ASTM D256
<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	491	°F	
CLTE - Flow	3.7E-5	in/in/°F	ASTM D696
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	450	V/mil	ASTM D149

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