

**Plaslube® PA6 TS15 BK**

 Techmer Polymer Modifiers - *Polyamide 6*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Additive	• Heat Stabilizer • PTFE Lubricant • Silicone Lubricant
Features	• Heat Stabilized • Lubricated
Appearance	• Black
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	1.23		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.017	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Break)	9000	psi	ASTM D638
Tensile Elongation (Break)	9.5	%	ASTM D638
Flexural Modulus	330000	psi	ASTM D790
Flexural Strength	13000	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.080		
vs. Steel - Static	0.060		
Wear Factor	6.0	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)	1.0	ft·lb/in	ASTM D256
<b>Hardness</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Rockwell Hardness (R-Scale)	116		ASTM D785
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	350	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	135	°F	ASTM D648
CLTE - Flow	4.7E-5	in/in/°F	ASTM D696
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	500	V/mil	ASTM D149

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