

**Plaslube® PA4/6 HS L BK**

Techmer Polymer Modifiers - *Polyamide 46*

**General**

Material Status	• Commercial: Active
Availability	• North America
Additive	• Heat Stabilizer • Lubricant
Features	• Heat Stabilized • Lubricated
UL File Number	• E157318
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	1.18		ASTM D792
Water Absorption (24 hr)	2.3	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield)	14500	psi	ASTM D638
Tensile Elongation (Yield)	40	%	ASTM D638
Flexural Modulus	435000	psi	ASTM D790
Flexural Strength	15000	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.20		
vs. Steel - Static	0.25		
Wear Factor	40	10 <sup>-4</sup> -10 <sup>-5</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			ASTM D256
-40°F, 0.125 in	1.4	ft·lb/in	
163°F, 0.125 in	1.5	ft·lb/in	
Unnotched Izod Impact (0.125 in)	No Break		ASTM D4812
<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)	430	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	320	°F	ASTM D648
CLTE - Flow	5.0E-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))	550	V/mil	ASTM D149

