

**Plaslube® PE 4000 AS**

 Techmer Polymer Modifiers - *Ultra High Molecular Weight Polyethylene*
**General Information**
**Product Description**

Injection Moldable, Permanent Antistat

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Antistatic</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	0.971		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.022	in/in	ASTM D955
Water Absorption (24 hr)	0.070	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength	4700	psi	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	130000	psi	ASTM D790
Flexural Strength	7000	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.27		
vs. Steel - Static	0.19		
Wear Factor	60	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
<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)	66		ASTM D785
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	200	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	130	°F	ASTM D648
CLTE - Flow	5.3E-5	in/in/°F	ASTM D696
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+9 to 1.0E+12	ohms·cm	ASTM D257
Dielectric Strength	500	V/mil	ASTM D149

