



**High Performance Urethane  
For  
“Can’t Fail” Applications**

**ST- 1870 DATA SHEET**

**POLYMER:** Aromatic Polyether Polyurethane

**DESCRIPTION:** A soft and flexible TPU with excellent hand, breathability, and elongation behavior.

**GENERAL PROPERTIES**

	Specifications	Units	Values
<b>Durometer:</b>	<b>D2240</b>		<b>75 A</b>
<b>Specific Gravity:</b>	<b>D792</b>		<b>1.06</b>
<b>Thermal Properties:</b>			
Maximum Service Temperatures,			
-continuous		<b>F</b> <b>C</b>	<b>-65 to +200</b> <b>-54 to +93</b>
-melting point range		<b>F</b> <b>C</b>	<b>320 to 338</b> <b>160 to 170</b>
<b>Tensile Properties:</b>	<b>D638</b>		
Modulus @ 100% strain		psi	<b>500</b>
Modulus @ 300% strain		psi	<b>800</b>
Modulus @ break		psi	<b>3500</b>
Modulus of elasticity up to 10% strain		psi	<b>N/A</b>
Elongation @ break		%	<b>700</b>
Set @ break		%	<b>50</b>
<b>Tear Properties:</b>			
Die C	<b>D624</b>	pli	<b>380</b>