

**MIRATHANE® A190**

TPU

Miracell Chemicals Co., Ltd.

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Modulus at 100% Elongation	<b>8</b>	MPa	ASTM D 412
Modulus at 300% Elongation	<b>15</b>	MPa	ASTM D 412
Shore A Hardness	<b>91</b>	-	ASTM D 2240
Tear Strength	<b>95</b>	kN/m	ASTM D 624
Tensile Strength	<b>40</b>	MPa	ASTM D 412
Elongation at Break	<b>500</b>	%	ASTM D 412

<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Glass Transition Temperature	<b>-38</b>	°C	ASTM E 1356

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1140</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Special Characteristics**

Transparent

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive, Electrical and Electronical