

**Estane® R185A TPU**

TPU

Lubrizol Advanced Materials Spain S.L.

<b>Processing/Physical Characteristics</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Mold Shrinkage, MD	<b>0.015</b>	mm/mm	ASTM D 955
<b>Mechanical properties</b>			
<b>ISO Data</b>			
Abrasion resistance	<b>45</b>	mm <sup>3</sup>	ISO 4649
<b>ASTM Data</b>			
Modulus at 100% Elongation	<b>5.89</b>	MPa	ASTM D 412
Modulus at 300% Elongation	<b>3.27</b>	MPa	ASTM D 412
Shore A Hardness	<b>87</b>	-	ASTM D 2240
Tear Strength	<b>93.1</b>	kN/m	ASTM D 624
Compression Set , 22 hr @ 73 °F	<b>15</b>	%	ASTM D 395
Compression Set , 22 hr @ 158 °F	<b>45</b>	%	ASTM D 395
<b>Thermal properties</b>			
<b>ASTM Data</b>			
Vicat Temperature	<b>90</b>	°C	ASTM D 1525
<b>Other properties</b>			
Density	<b>1100</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding, Other Extrusion

**Regional Availability**

North America, Europe, Asia Pacific

**Certifications**

Food contact, Food approval FDA 21 CFR