

**Estane® S392A 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>0.008</b>	mm/mm	ASTM D 955

<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Abrasion resistance	<b>35</b>	mm <sup>3</sup>	ISO 4649
<b>ASTM Data</b>			
Modulus at 100% Elongation	<b>9.81</b>	MPa	ASTM D 412
Modulus at 300% Elongation	<b>6.54</b>	MPa	ASTM D 412
Shore A Hardness	<b>93</b>	-	ASTM D 2240
Shore D Hardness	<b>50</b>	-	ASTM D 2240
Tear Strength	<b>118</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>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ASTM Data</b>			
Vicat Temperature	<b>110</b>	°C	ASTM D 1525

<b>Other properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	<b>1210</b>	kg/m <sup>3</sup>	ASTM D 792

**Characteristics****Processing**

Injection Molding, Other Extrusion, Blow Molding

**Special Characteristics**

Transparent

**Certifications**

Food contact, Food approval FDA 21 CFR

**Regional Availability**

North America, Europe, Asia Pacific