

**Estane® 2103-85AE TPU**

TPU

Lubrizol Advanced Materials Spain S.L.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Melt Flow Index, MFI	<b>24</b>	g/10min	ASTM D 1238
Temperature	<b>224</b>	°C	-
Load	<b>8.7</b>	kg	-
Mold Shrinkage, MD	<b>0.006</b>	mm/mm	ASTM D 955
Mold Shrinkage, TD	<b>0.003</b>	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Modulus at 100% Elongation	<b>6.89</b>	MPa	ASTM D 412
Modulus at 300% Elongation	<b>12.1</b>	MPa	ASTM D 412
Shore A Hardness	<b>88</b>	-	ASTM D 2240
Shore D Hardness	<b>48</b>	-	ASTM D 2240
Tear Strength	<b>82.3</b>	kN/m	ASTM D 624
Taber Abrasion Resistance	<b>5</b>	mg/1000 cycles	ASTM D 1044
Compression Set , 22 hr @ 73 °F	<b>25</b>	%	ASTM D 395
Compression Set , 22 hr @ 158 °F	<b>80</b>	%	ASTM D 395

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Coefficient of Thermal Expansion, MD	<b>169</b>	E-6/K	ASTM D 696
Glass Transition Temperature	<b>-37.8</b>	°C	ASTM E 1356
Vicat Temperature	<b>67.2</b>	°C	ASTM D 1525

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

**Characteristics****Processing**

Injection Molding, Film Extrusion, Profile Extrusion

**Regional Availability**

North America, Europe, Asia Pacific