

**Technical Data Sheet**

**Type:** Estane® X-595A-11 is a Shore 97A, polyester grade thermoplastic polyurethane (TPU). FDA approved (21 CFR 177.2600, 177.1680).

**Uses:** Extrusion

Physical Properties	Standard No.	Units	Value
Hardness	ASTM D2240	Shore A	97
Specific Gravity	ASTM D792	g/cm <sup>3</sup>	1.22
<b>Mechanical</b>			
Tensile Stress:	ASTM D412	kgf/cm <sup>2</sup>	
At 100% elongation			135
At 300% elongation			240
Tensile Strength	ASTM D412	kgf/cm <sup>2</sup>	500
Ultimate Elongation	ASTM D412	%	550
Tear Resistance (Die C)	ASTM D624	kgf/cm	130
<b>Compression Set</b>			
At 23°C X22hr		%	20
At 70°C X22hr		%	50
<b>Thermal</b>			
Vicat Softening Temperature	ASTM D1525	°C	115
Melt Index @ 224°C, 2160g load	ASTM D1238	g/10min	22

\*Test samples were annealed at 100°C and 24 hours at room temperature before testing.

\*\*These are typical values and should not be used for specifications.

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