

**Technical Data Sheet**

**Type:** Estane® AG 4950 is a Polyether based aliphatic Thermoplastic Polyurethane (TPU) specifically formulated to be used as an adhesive interlayer in transparencies for electronic displays, aerospace, architectural and transportation applications.

**Feature:** Low modulus, low temperature processing adhesive for difficult glass-clad polycarbonate structures.

**Uses:** For difficult asymmetrical glass clad and plastic laminates.

Physical Properties	Value	Unit	Test Method
Ultimate Tensile Strength	3500	psi	D412
Ultimate Elongation	770	%	D412
Tensile Modulus			
- At 100%	340	psi	D412
- At 200%	475	psi	D412
- At 300%	650	psi	D412
Specific Gravity	1.06		D792
DSC Mid Point, Tg	-60	°C	Lubrizol DSC
TMA Peak	92	°C	Lubrizol TMA
TMA Range	60-140	°C	Lubrizol TMA
Coefficient of Thermal Expansion	~0.0003	°C	Lubrizol CTE-TMA Method
<b>Typical Properties</b>			
Haze	0.3	%	D1003
Transmission	90	%	D1003
Yellowness Index	<1		D1925
Refractive Index	1.486		D542-95

- ASTM D412 grip separation rate – 20 inches per minute.
- 0.050" film thickness between two pieces of 1/8" glass.

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