

Technical Data Sheet

Type: Estane® AG 8451 is a polyether based aliphatic (TPU) specifically formulated to be used as an adhesive interlayer film. AG 8451 is an excellent general purpose polymer for all optical aliphatic applications.

Feature: This polymer works over a broad range of processing temperatures with excellent laminating results.

Uses: Adhesive interlayer for glass-clad polycarbonate without a surface primer.

Physical Properties	Value (Metric)	Units	ASTM Test Method
Ultimate Tensile Strength	7000	psi	D412
Ultimate Elongation	475	%	D412
Tensile Modulus			
- At 100%	500	psi	D412
- At 200%	1200	psi	D412
- At 300%	2000	psi	D412
Tear Strength	320	lbs/in	D624, Die C
Specific Gravity	1.08		D792
DSC Mid Point, Tg	-60	°C	Lubrizol DSC
TMA Peak	88	°C	Lubrizol TMA
TMA Range	65-130	°C	Lubrizol TMA
Compression Set:			
- 22 hrs @ 22°C	23	%	D395-98
- 22 hrs @ 70°C	95	%	D395-98
Coefficient of Thermal Expansion	~0.0002	°C	Lubrizol CTE-TMA Method
Haze	0 to 0.3	%	D1003
Transmission	85 to 95	%	D1003
Yellowness Index	<1		D1925
Refractive Index	1.4962		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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