

Technical Data Sheet

Type: Estane® AG 9550 is a Polyether based aliphatic polyurethane designed for flat die extrusion into film and sheet products.

Feature: Very tough, high modulus, high tear and tensile properties that will impart good impact resistance to bullet-resistant glazing applications. Excellent impact and UV resistance.

Uses: Designed for the lamination of glass to glass laminates with exposed edges.

Physical Properties	Value (Metric)	Units	ASTM Test Method
Ultimate Tensile Strength	9000	psi	D412
Ultimate Elongation	375	%	D412
Tensile Modulus			
- At 100%	1800	psi	D412
- At 200%	2500	psi	D412
- At 300%	4300	psi	D412
Tear Strength	440	lb/in	D624, Die C
Specific Gravity	1.10		D792
DSC Mid Point, Tg	-35	°C	Lubrizol DSC
TMA Peak	155	°C	Lubrizol TMA
TMA Range	90 to 200	°C	Lubrizol TMA
Coeffecient of Thermal Expansion	~.007	L/Lo °C	Lubrizol CTE-TMA Method
Thermal Properties			
Haze	0.3	%	D1003
Transmission	90	%	D1003
Yellowness Index	<1		D1925
Refractive Index	1.499		D542-95

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

The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained. The information often is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance or reproducibility. Formulations presented may not have been tested for stability and should be used only as a suggested starting point. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability for any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation nor as an inducement to practice any patented invention without permission of the patent owner.

