

Estane® AG 9550 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

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

Features: 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.

General Information			
Features	Aliphatic		
	Good Impact Resistance		
	Good Tear Strength		
	Good Toughness		
	Good UV Resistance		
	High Stiffness		
Uses	Film		
	Laminates		
	Sheet		
Forms	Pellets		
Processing Method	Film Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% Strain	12.4	MPa	
200% Strain	17.2	MPa	
300% Strain	29.6	MPa	
Tensile Strength ² (Break)	62.1	MPa	ASTM D412
Tensile Elongation ³ (Break)	380	%	ASTM D412
Tear Strength ⁴	77.1	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-35.0	°C	DSC
CLTE - Flow	7.0E-3	cm/cm/°C	Internal Method
TMA			Internal Method
Peak	155	°C	
Range	90 to 200	°C	

Optical	Nominal Value	Unit	Test Method
Refractive Index ⁵	1.499		ASTM D542
Transmittance ⁶ (1270 μm)	90.0	%	ASTM D1003
Haze ⁷ (1270 μm)	0.30	%	ASTM D1003
Yellowness Index ⁸ (1.27 mm)	< 1.0	YI	ASTM D1925

NOTE	
1.	510 mm/min
2.	510 mm/min
3.	510 mm/min
4.	Die C
5.	Between two pieces of 1/8 inch glass
6.	Between two pieces of 1/8 inch glass
7.	Between two pieces of 1/8 inch glass
8.	Between two pieces of 1/8 inch glass

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