

Estane® AG 4350 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® AG 4350 is a Polyether based aliphatic polyurethane specifically formulated to be used as an adhesive interlayer without the need for a glass surface primer. This polymer is designed for flat die extrusion into sheet and film.

Features: Designed for the lamination of optical transparencies using dissimilar products such as glass, polycarbonate, acrylic and cellulose acetate butyrate (CAB).

Uses: Mid to low modulus, excellent low temperature impact resistance and tensile strength this is ideal for large span curved transparencies.

General Information			
Features	Aliphatic		
	Low Temperature Impact Resistance		
Uses	Film		
	Laminates		
	Sheet		
Forms	Pellets		
Processing Method	Film Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ¹			ASTM D412
100% Strain	3.10	MPa	
200% Strain	5.86	MPa	
300% Strain	8.27	MPa	
Tensile Strength ² (Break)	24.1	MPa	ASTM D412
Tensile Elongation ³ (Break)	550	%	ASTM D412
Tear Strength ⁴	50.8	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-60.0	°C	DSC
CLTE - Flow	2.0E-4	cm/cm/°C	Internal Method
TMA			Internal Method
Peak	99	°C	
Range	65 to 110	°C	
Optical	Nominal Value	Unit	Test Method
Refractive Index ⁵	1.488		ASTM D542
Transmittance ⁶ (1270 µm)	85.0 to 95.0	%	ASTM D1003

Haze ⁷ (1270 μm)	0.0 to 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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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

