Estane® AG 4950 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

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.
Features: Low modulus, low temperature processing adhesive for difficult glass-clad polycarbonate structures.
Uses: For difficult asymmetrical glass clad and plastic laminates.

General Information			
Features	Aliphatic Low Temperature Resistant		
Uses	Adhesives Aerospace Applications Electronic Displays Laminates		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.06	g/cm³	ASTM D792
Elastomers	**Nominal Value**	**Unit**	**Test Method**
Tensile Stress [1]			ASTM D412
100% Strain	2.34	MPa	
200% Strain	3.28	MPa	
300% Strain	4.48	MPa	
Tensile Strength [2] (Break)	24.1	MPa	ASTM D412
Tensile Elongation [3] (Break)	770	%	ASTM D412
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-60.0	°C	DSC
CLTE - Flow	3.0E-4	cm/cm/°C	Internal Method
TMA			Internal Method
Peak	92	°C	
Range	60 to 140	°C	
Optical	**Nominal Value**	**Unit**	**Test Method**
Refractive Index [4]	1.486		ASTM D542
Transmittance [5] (1270 µm)	90.0	%	ASTM D1003
Haze [6] (1270 µm)	0.30	%	ASTM D1003
Yellowness Index [7] (1.27 mm)	< 1.0	YI	ASTM D1925
NOTE			
1.	510 mm/min		

2.	510 mm/min
3.	510 mm/min
4.	Between two pieces of 1/8 inch glass
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

Recommended distributors for this material

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WECHAT