

Lubrizol Estane® AG 8451 Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyether Grade

Material Notes:

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 allphatic applications.Features: 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.Available in AmericasInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-AG-8451-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	48.3 MPa	7000 psi	ASTM D412
Elongation at Break	475 %	475 %	ASTM D412
100% Modulus	0.00345 GPa	0.500 ksi	ASTM D412
200% Modulus	0.00827 GPa	1.20 ksi	ASTM D412
300% Modulus	0.0138 GPa	2.00 ksi	ASTM D412
Tear Strength	56.1 kN/m	320 pli	Die C; ASTM D624
Compression Set	23 %	23 %	ASTM D395-98
	@Temperature 22.0 °C, Time 79200 sec	@Temperature 71.6 °F, Time 22.0 hour	
	95 %	95 %	ASTM D395-98
	@Temperature 70.0 °C, Time 79200 sec	@Temperature 158 °F, Time 22.0 hour	

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-60.0 °C	-76.0 °F	DSC

Optical Properties	Metric	English	Comments
Refractive Index	1.4962	1.4962	ASTM D542-95
Haze	0.00 - 0.30 %	0.00 - 0.30 %	ASTM D1003
Yellow Index	<= 1.0 %	<= 1.0 %	ASTM D1925

Optical Properties	Metric	English	Comments
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Descriptive Properties	Value	Comments
TMA Peak (°C)	88	
TMA Range (°C)	65-130	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China