

Lubrizol ESTANE® 5701 Ester Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Polyester Grade

Material Notes:

Features: Displays Low Temperature Flexibility and Abrasion Resistance. Uses: Audio Tape Binder and Screen Printing Inks, Inks and Lacquers, Cast Film for Lamination Available in Americas and Asia Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-5701-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Viscosity	2400 cP	2400 cP	RVT Spindle #2, 20 rpm, 23°C, 15% TS in Cyclohexanone
	28000 cP @Temperature 204 °C	28000 cP @Temperature 399 °F	Melt; ASTM D1084-88
Brookfield Viscosity	475 cP	475 cP	RVT Spindle #2, 20 rpm, 23°C, 15% TS in THF

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	85	85	ASTM D2240
Tensile Strength	49.0 MPa	7110 psi	ASTM D412/D638
Elongation at Break	460 %	460 %	ASTM D412/D638
100% Modulus	0.00520 GPa	0.754 ksi	
300% Modulus	0.0131 GPa	1.90 ksi	
Peel Strength	0.110 kN/m	0.628 pli	Adhesion to PET; TP-141
	0.900 kN/m	5.14 pli	Aluminum Foil; ASTM D1867-72
	5.00 kN/m	28.5 pli	Mylar Film; ASTM D1867-72

Thermal Properties	Metric	English	Comments
Vicat Softening Point	70.0 °C	158 °F	ASTM D1525
Glass Transition Temp, Tg	-23.0 °C	-9.40 °F	DSC
Ring & Ball Softening Point	161 °C	322 °F	ASTM E28-92

Descriptive Properties	Value	Comments
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Gradient Bar Tack Temperature Descriptive Properties	121°C Value	Comments
Open Time	<5 sec	ASTM D4497-94

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