

Lubrizol ESTANE® 5703 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Soft compound with high elongation, displays low temperature flexibility and abrasion resistance. It can be processed by means of solution coating, extrusion and melt coating. Uses: Adhesive for inks and lacquers, fabric coating and magnetic media binder Available in Americas, Europe, Middle East, Africa, India and Asia Information provided by Lubrizol

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-5703-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Viscosity	92000 cP @Temperature 204 °C	92000 cP @Temperature 399 °F	Melt; ASTM D1084-88
Brookfield Viscosity	250 cP	250 cP	RVT Spindle #2, 20 RPM, 23°C, 15% T.S. in THF
	1600 cP	1600 cP	RVT Spindle #2, 20 RPM, 23°C, 15% T.S. in Cyclohexanone

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
Tensile Strength	31.0 MPa	4500 psi	ASTM D412/D638
Elongation at Break	630 %	630 %	ASTM D412/D638
100% Modulus	0.00230 GPa	0.334 ksi	
300% Modulus	0.00380 GPa	0.551 ksi	
Peel Strength	0.120 kN/m	0.685 pli	to PET; TP-141
	1.80 kN/m	10.3 pli	Aluminum Foil; ASTM D-1876-72
	3.40 kN/m	19.4 pli	Mylar Film; ASTM D-1876-72

Thermal Properties	Metric	English	Comments
Softening Point	85.0 °C	185 °F	Kofler; ASTM D1525
Glass Transition Temp, Tg	-31.0 °C	-23.8 °F	DSC
Ring & Ball Softening Point	179 °C	354 °F	ASTM E28-94

Descriptive Properties	Value	Comments
Gradient Bar Tack Temperature	91°C	
Open Time	>300 sec	ASTM D-4497-94

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