

Lubrizol ESTANE® 5714 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Features: Low Temperature Flexibility, Excellent Abrasion, Fungal, and Chemical Resistance, and Hydrolytic Stability. Adhesives can be applied from solution or extruded as a melt coating. The resin is lightly dusted with calcium stearate and contains UV stabilizer. Uses:

Various adhesive and fabric coating, magnetic media binder and cast films for lamination Available in Americas, Europe, Middle East, Africa, India and Asia Information provided by Noveon, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-5714-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.11 g/cc	1.11 g/cc	ASTM D792
Viscosity	72000 cP	72000 cP	ASTM D-1084-88
	@Temperature 204 °C	@Temperature 399 °F	
Brookfield Viscosity	900 cP	900 cP	RVT Spindle #2, 20 RPM, 23°C, 15% T.S. in THF
	3700 cP	3700 cP	RVT Spindle #2, 20 RPM, 23°C, 15% T.S. in Cyclohexanone

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Tensile Strength	31.0 MPa	4500 psi	ASTM D412/D638
Elongation at Break	530 %	530 %	ASTM D412/D638
100% Modulus	0.00480 GPa	0.696 ksi	ASTM D412/D638
300% Modulus	0.00900 GPa	1.31 ksi	ASTM D412/D638
Peel Strength	0.500 kN/m	2.85 pli	ASTM D-1876-72
	1.50 kN/m	8.56 pli	ASTM D-1876-72

Thermal Properties	Metric	English	Comments
Vicat Softening Point	71.1 °C	160 °F	ASTM D1525
Glass Transition Temp, Tg	-38.0 °C	-36.4 °F	DSC
Ring & Ball Softening Point	174 °C	345 °F	ASTM E-28-92

Descriptive Properties	Value	Comments
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Gradient Bar Test Temperature Descriptive Properties	127°C Value	Comments
Open Time	<5 sec	ASTM D-4497-94

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