

Lubrizol Estane® 54601 Thermoplastic Polyurethane

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

Material Notes:

Feature: Produces high coating weight in one pass at high production speed. Broad process window and transparent spherical pellets. Uses:

Melt roll coated fabrics and unsupported foils Available in Americas, Europe, Middle East, Africa and India Information Provided by The

Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-54601-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ISO 2781
Maximum Moisture Content	0.10	0.10	
Melt Flow	45 - 65 g/10 min @Load 8.70 kg, Temperature 190 °C	45 - 65 g/10 min @Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	93 @Time 5.00 sec	93 @Time 0.00139 hour	ISO 868
Tensile Strength	44.0 MPa	6380 psi	ISO 527-3/5/500
Elongation at Break	580 %	580 %	
50% Modulus	0.00780 GPa	1.13 ksi	
100% Modulus	0.00850 GPa	1.23 ksi	
300% Modulus	0.0140 GPa	2.03 ksi	
Tear Strength	81.0 kN/m	462 pli	ISO 34B
Abrasion	48	48	[mm³]

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Processing Properties	Metric	English	Comments
Zone 1	180 °C	356 °F	
Zone 2	180 °C	356 °F	

Zone 3 Processing Properties	175 °C Metric	347 °F English	Comments
Zone 4	175 °C	347 °F	
Adapter Temperature	170 °C	338 °F	5
Die Temperature	170 °C	338 °F	6
Roll Temperature	160 °C	320 °F	1
	170 °C	338 °F	2
Drying Temperature	90.0 °C	194 °F	
Dry Time	3.00 hour	3.00 hour	
Dew Point	-40.0 - -30.0 °C	-40.0 - -22.0 °F	

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