

Lubrizol Estane® 54643 Polyester-Based Thermoplastic Polyurethane

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

Material Notes:

Feature: Excellent flame retardant properties, matt surface appearance and low surface friction and transparent spherical pellets
 Uses: Melt roll coated fabrics and calendering
 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-54643-Polyester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 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	83	83	ISO 868
Tensile Strength at Break	33.0 MPa	4790 psi	ISO 527-3/5/500
Elongation at Break	625 %	625 %	
50% Modulus	0.00390 GPa	0.566 ksi	
100% Modulus	0.00460 GPa	0.667 ksi	
300% Modulus	0.00720 GPa	1.04 ksi	
Tear Strength	38.0 kN/m	217 pli	ISO 34B
Abrasion	58	58	[mm ³]

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

Processing Properties	Metric	English	Comments
Zone 1	180 °C	356 °F	Extrusion
Zone 2	180 °C	356 °F	Extrusion
Zone 3	175 °C	347 °F	Extrusion

Processing Properties	Metric	English	Comments
Adapter Temperature	170 °C	338 °F	5, Extrusion
Die Temperature	170 °C	338 °F	6, Extrusion
Roll Temperature	160 °C	320 °F	1, Extrusion
	170 °C	338 °F	2, Extrusion
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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