

Lubrizol ESTANE® 54640 Ether Based Thermoplastic Polyurethane

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

Material Notes:

Very good physical properties and hydrolysis resistance and wide processing window for calendering. Uses: Melt coating/calendering, flat die/cast film extrusion 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-54640-Ether-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88	82 - 88	ASTM D2240
Tensile Strength	45.5 MPa	6600 psi	ASTM D412
Elongation at Break	650 %	650 %	ASTM D412/D638
100% Modulus	0.00620 GPa	0.899 ksi	ASTM D412
300% Modulus	0.0117 GPa	1.70 ksi	ASTM D412
Tear Strength	21.0 kN/m	120 pli	Trouser; ASTM D470
Graves Tear Strength	68.4 kN/m	390 pli	Die C; ASTM D624
Tensile Set	14 %	14 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	DSC
Glass Transition Temp, Tg	-49.0 °C	-56.2 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	171 °C	340 °F	Extrusion
Zone 2	177 °C	351 °F	Extrusion
Zone 3	182 °C	360 °F	Extrusion
Zone 4	188 °C	370 °F	Extrusion
Adapter Temperature	188 °C	370 °F	5, Extrusion

Processing Properties	Metric	English	Comments
	188 °C	370 °F	Zone 2, Extrusion
Melt Temperature	185 °C	365 °F	
Drying Temperature	104 °C	219 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

Descriptive Properties	Value	Comments
Volume Swell in Water	1.3%	24h/23°C

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