

Lubrizol ESTANE® ETE50DT3 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Hard TPU with wide extrusion processing window and melt stability, low temperature flexibility, high transparency, UV

stableUses: Extrusion: Hose and Tube, Profile, Cable Jacket; Injection molding: VariousAvailable in Americas, Europe, Middle East, Africa,

India and AsiaInformation provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-ETE50DT3-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	47 - 53	47 - 53	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	60.0 MPa	8700 psi	ASTM D412
Tensile Strength, Ultimate	46.8 MPa	6790 psi	Water Immersion
	@Temperature 70.0 °C, Time 3.629e+6 sec	@Temperature 158 °F, Time 1008 hour	
	46.8 MPa	6790 psi	Oven Aging
	@Temperature 100 °C, Time 2.42e+6 sec	@Temperature 212 °F, Time 672 hour	
	48.0 MPa	6960 psi	Water Immersion
	@Temperature 70.0 °C, Time 1.21e+6 sec	@Temperature 158 °F, Time 336 hour	
	48.0 MPa	6960 psi	Water Immersion
	@Temperature 70.0 °C, Time 2.42e+6 sec	@Temperature 158 °F, Time 672 hour	
	49.2 MPa	7140 psi	Oven Aging
	@Temperature 100 °C, Time 605000 sec	@Temperature 212 °F, Time 168 hour	
	60.0 MPa	8700 psi	Water Immersion
	@Temperature 70.0 °C, Time 0.000 sec	@Temperature 158 °F, Time 0.000 hour	
	60.0 MPa	8700 psi	

Mechanical Properties	Metric @ Temperature 100 °C, Time 0.000 sec	English @ Temperature 212 °F, Time 0.000 hour	Oven Aging Comments
Elongation at Break	410 %	410 %	ASTM D412
100% Modulus	0.0152 GPa	2.20 ksi	ASTM D412
300% Modulus	0.0352 GPa	5.11 ksi	ASTM D412
Tear Strength	33.3 kN/m	190 pli	Trousers; ASTM D470
Graves Tear Strength	142 kN/m	810 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	81	81	H18, 1000g; ASTM D3389 B

Thermal Properties	Metric	English	Comments
Melting Point	150 °C	302 °F	DSC
Glass Transition Temp, Tg	-33.0 °C	-27.4 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	193 °C	379 °F	Extrusion
Zone 2	199 °C	390 °F	Extrusion
Zone 3	204 °C	399 °F	Extrusion
Zone 4	210 °C	410 °F	Extrusion
Adapter Temperature	210 °C	410 °F	5, Extrusion
Die Temperature	210 °C	410 °F	6, Zone 1, Extrusion
	210 °C	410 °F	Zone 2, Extrusion
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	

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