

Lubrizol ESTANE® ETE60DS3 Ester Based Thermoplastic Polyurethane

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

Material Notes:

Features: Hard TPU with wide extrusion processing window and melt stability, high transparency
 Uses: Extrusion: Hose and Tube, Extrusion: Profile, Cable Jacket; Injection molding: Various
 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-ETE60DS3-Ester-Based-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	57 - 63	57 - 63	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	49.0 MPa	7110 psi	ASTM D412
Tensile Strength, Ultimate	28.91 MPa	4193 psi	Water Immersion
	@Temperature 70.0 °C, Time 3.629e+6 sec	@Temperature 158 °F, Time 1008 hour	
	30.38 MPa	4406 psi	Water Immersion
	@Temperature 70.0 °C, Time 2.42e+6 sec	@Temperature 158 °F, Time 672 hour	
	48.02 MPa	6965 psi	Oven Aging
	@Temperature 100 °C, Time 2.42e+6 sec	@Temperature 212 °F, Time 672 hour	
	49.0 MPa	7110 psi	Oven Aging
	@Temperature 100 °C, Time 0.000 sec	@Temperature 212 °F, Time 0.000 hour	
	49.0 MPa	7110 psi	Oven Aging
	@Temperature 100 °C, Time 605000 sec	@Temperature 212 °F, Time 168 hour	
	49.0 MPa	7110 psi	Water Immersion
	@Temperature 70.0 °C, Time 0.000 sec	@Temperature 158 °F, Time 0.000 hour	
	49.0 MPa	7110 psi	

Mechanical Properties	Metric @ Temperature 70.0 °C, Time 1.21e+6 sec	English @ Temperature 158 °F, Time 336 hour	Water Immersion Comments
Elongation at Break	390 %	390 %	ASTM D412
100% Modulus	0.0230 GPa	3.34 ksi	ASTM D412
300% Modulus	0.0490 GPa	7.11 ksi	ASTM D412
Tear Strength	35.1 kN/m	200 pli	Trouser; ASTM D470
Graves Tear Strength	175 kN/m	1000 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	62	62	H18, 1000g; ASTM D3389 B

Thermal Properties	Metric	English	Comments
Melting Point	172 °C	342 °F	DSC
Glass Transition Temp, Tg	-18.0 °C	-0.400 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	199 °C	390 °F	Extrusion
Zone 2	204 °C	399 °F	Extrusion
Zone 3	204 °C	399 °F	Extrusion
Zone 4	210 °C	410 °F	Extrusion
Adapter Temperature	213 °C	415 °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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