

Lubrizol Estane® ETE 70DT3 Thermoplastic Polyurethane, Easy-to-Extrude

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

Material Notes:

Type: Estane® ETE 70DT3 is an aromatic polyether-based thermoplastic polyurethane (TPU).Features: Hard TPU with wide extrusion processing window and melt stability, low temperature flexibility, high transparency and UV stability.Uses: Extrusion: Hose and Tube, Profile, Cable Jacket. Injection molding: Various.Available in Americas, Europe, Middle East, Africa, India and AsiaInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-ETE-70DT3-Thermoplastic-Polyurethane-Easy-to-Extrude.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70 @Time 5.00 sec	70 @Time 0.00139 hour	ASTM D2240
Tensile Strength, Ultimate	51.7 MPa	7500 psi	ASTM D412
Elongation at Break	360 %	360 %	ASTM D412
100% Modulus	0.0190 GPa	2.76 ksi	ASTM D412
300% Modulus	0.0410 GPa	5.95 ksi	ASTM D412
Tear Strength	33.3 kN/m	190 pli	Trouser; ASTM D470
Graves Tear Strength	210 kN/m	1200 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	64 @Load 1.00 kg	64 @Load 2.20 lb	H-18 wheel; ASTM D3389

Thermal Properties	Metric	English	Comments
Melting Point	200 °C	392 °F	DSC
Glass Transition Temp, Tg	-22.0 °C	-7.60 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	204 °C	399 °F	Extrusion
Zone 2	210 °C	410 °F	Extrusion

Processing Properties	Metric	English	Comments
Zone 4	216 °C	421 °F	Extrusion
Adapter Temperature	216 °C	421 °F	5, Extrusion
Die Temperature	218 °C	424 °F	Zone 1, Extrusion
	218 °C	424 °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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