

Technical Data Sheet

Type: Estane[®] ETE 60DT3 is a 60D aromatic Polyether-Based Thermoplastic Polyurethane (TPU).

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

Uses: Extrusion: Hose and Tube, Extrusion: Profile, Cable Jacket; Injection molding: Various.

Physical Properties	Value (Metric Units)	Unit	Test Method
Hardness (5 sec)	60 +/- 3	Shore D	ASTM D-2240
Specific Gravity	1.17		ASTM D-792
Tensile Strength	7800 (53.8)	psi (MPa)	ASTM D-412
Ultimate Elongation	460	%	u
Tensile Stress at:			
- 100 % Elongation	3000 (20.7)	psi (MPa)	ASTM D-412
- 300 % Elongation	6400 (44.1)	psi (MPa)	u
Tear Strength			
Graves	900 (157.6)	lb/in (kg/mm)	ASTM D-624 (die C)
Trouser	230 (40.3)	lb/in (kg/mm)	ASTM D-470
Taber Loss (1000 rev)	0.00212 (60)	oz (mg)	ASTM D-3389 (H18, 1000g)
T _m (by DSC)	322 (161)	°F (°C)	Lubrizol Advanced Materials
T _g (by DSC)	-1 (-17)	°F (°C)	Lubrizol Advanced Materials

[•] Prior to testing samples were conditioned at 23°C for 48 hours.

Supply Form and Standard Packaging

• Estane® ETE 60DT3 TPU is supplied in pellet form and packaged in 50 lb bags or 1000 lb boxes.

Material Preparation

- Prior to processing, Estane® ETE 60DT3 TPU must be dried at 220°F (104°C) for 2-4 hours.
- It is recommended to dry the material in a desiccant type dryer. Target dew point should -40°C.
- Depending on the applied processing technique, the maximum moisture level should be 0.02%.

Processing Conditions

• Estane® ETE 60DT3 TPU was extruded on any conventional extruder.

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[·] Based on extruded sheet (30 mils).

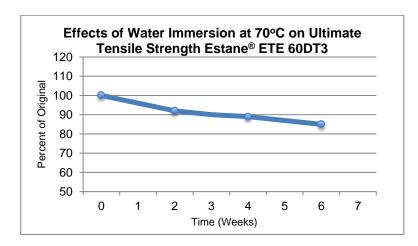
[•] Listed values are "typical (average) values" and should / cannot be applied for specification purposes.

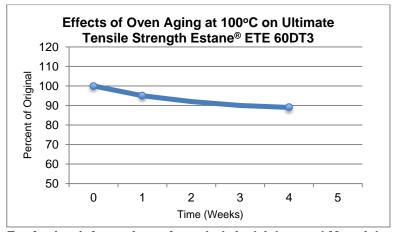


Recommended Starting Extrusion Temperature Profile:

	°F/°C
Zone 1	390/199
Zone 2	400/204
Zone 3	410/210
Zone 4	410/210
Adapter	410/210
Die Zone 1	420/216
Die Zone 2	420/216

Melt Temp. Mid-Range: 410°F/210°C Screen Pack Recommendation: 20/40/80/20





For further information refer to Lubrizol Advanced Materials processing guides.

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