



Estane® ETE 60DT3 TPU

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polyether)

Wednesday, November 6, 2019

General Information

Product Description

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

Features: 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

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	• North America
Features	• Aromatic • Good Processability	• High Clarity • High Melt Stability	• Low Temperature Flexibility
Uses	• Cable Jacketing • Hose	• Profiles • Tubing	• Wire & Cable Applications
RoHS Compliance	• RoHS Compliant		
Forms	• Pellets		
Processing Method	• Extrusion	• Profile Extrusion	• Wire & Cable Extrusion

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.17		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance 1000 Cycles, 1000 g, H-18 Wheel	60.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain, 0.0300 in)	3000	psi	ASTM D412
Tensile Stress (300% Strain, 0.0300 in)	6400	psi	ASTM D412
Tensile Strength (Break, 0.0300 in)	7800	psi	ASTM D412
Tensile Elongation (Break, 0.0300 in)	460	%	ASTM D412
Tear Strength ² (0.0300 in)	900	lbf/in	ASTM D624
Tear Strength (Split)	230	lbf/in	ASTM D470
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	57 to 63		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	1.40	°F	DSC
Melting Temperature	322	°F	DSC

Processing Information

Extrusion	Nominal Value	Unit
Drying Temperature	219	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.020	%
Cylinder Zone 1 Temp.	390	°F
Cylinder Zone 2 Temp.	399	°F
Cylinder Zone 3 Temp.	410	°F

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.

Estane® ETE 60DT3 TPU

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer (Polyether)

Extrusion	Nominal Value	Unit
Cylinder Zone 4 Temp.	410	°F
Adapter Temperature	410	°F
Melt Temperature	410	°F
Die Temperature	421	°F

Extrusion Notes
Dew Point: -40°C
Screen Pack Recommendation: 20/40/80/20

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² Die C