

Estane® ETE 50DT3 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® ETE 50DT3 is a 50D 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, Profile, Cable Jacket; Injection molding: Various

General Information			
Features	Flexibility at low temperatures		
	Aroma		
	High melt stability		
	Good UV resistance		
	Workability, good		
	Definition, high		
Uses	Cable sheath		
	Wire and cable applications		
	Pipe		
	Pipe fittings		
	Profile		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Wire & Cable Extrusion		
	Extrusion		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	47 - 53		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	81.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 0.762mm	15.2	MPa	ASTM D412
300% strain, 0.762mm	35.2	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	60.0	MPa	ASTM D412

Tensile Elongation (Break, 0.762 mm)	420	%	ASTM D412
Tear Strength			
0.762 mm ¹	142	kN/m	ASTM D624
Cracking	33	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-33.0	°C	DSC
Melting Temperature	150	°C	DSC
Extrusion	Nominal Value	Unit	
Drying Temperature	104	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Cylinder Zone 1 Temp.	193	°C	
Cylinder Zone 2 Temp.	199	°C	
Cylinder Zone 3 Temp.	204	°C	
Cylinder Zone 4 Temp.	210	°C	
Adapter Temperature	210	°C	
Melt Temperature	204	°C	
Die Temperature	210	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20			
NOTE			
1.	C mould		

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