

Estane® ETE 55DT3 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® ETE 55DT3 is a 55D 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 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)	52 - 58		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	109	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 0.762mm	19.3	MPa	ASTM D412
300% strain, 0.762mm	42.1	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	57.9	MPa	ASTM D412

Tensile Elongation (Break, 0.762 mm)	420	%	ASTM D412
Tear Strength			
0.762 mm ¹	142	kN/m	ASTM D624
Cracking	40	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-36.0	°C	DSC
Melting Temperature	181	°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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