

Estane® ETE 70DT3 TPU

Thermoplastic Polyurethane Elastomer (Polyether)

Lubrizol Advanced Materials, Inc.

Message:

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

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	1.18	g/cm ³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D, 5 sec)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Taber Abrasion Resistance (1000 Cycles, 1000 g, H-18 Wheel)	64.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain	19.0	MPa	ASTM D412
300% strain	41.0	MPa	ASTM D412
Tensile Strength (Break)	52.0	MPa	ASTM D412

Tensile Elongation (Break)	360	%	ASTM D412
Tear Strength			
-- 1	210	kN/m	ASTM D624
Cracking	33	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-22.0	°C	DSC
Melting Temperature	200	°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.	204	°C	
Cylinder Zone 2 Temp.	210	°C	
Cylinder Zone 3 Temp.	216	°C	
Cylinder Zone 4 Temp.	216	°C	
Adapter Temperature	216	°C	
Melt Temperature	213	°C	
Die Temperature	218	°C	
Extrusion instructions			
Dew Point: -40°C Screen Pack Recommendation: 20/40/80/20			
NOTE			
1.	C mould		

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