

Estane® ETE 55DS3 TPU

Thermoplastic Polyurethane Elastomer (Polyester)

Lubrizol Advanced Materials, Inc.

Message:

Type: Estane® ETE 55DS3 is a 55D aromatic Polyester-Based Thermoplastic Polyurethane (TPU).
Features: Hard TPU with wide extrusion processing window and melt stability, low temperature flexibility, high transparency, excellent chemical resistance
Uses: Extrusion: Hose and Tube, Extrusion: Profile, Injection molding: Various

General Information			
Features	Flexibility at low temperatures		
	Aroma		
	High melt stability		
	Workability, good		
	Good chemical resistance		
	Definition, high		
Uses	Pipe		
	Pipe fittings		
	Profile		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Extrusion		
	Profile extrusion molding		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	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)	58.0	mg	ASTM D3389
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% strain, 0.762mm	14.5	MPa	ASTM D412
300% strain, 0.762mm	33.1	MPa	ASTM D412
Tensile Strength (Break, 0.762 mm)	71.0	MPa	ASTM D412
Tensile Elongation (Break, 0.762 mm)	440	%	ASTM D412
Tear Strength			
0.762 mm ¹	154	kN/m	ASTM D624

Cracking	36	kN/m	ASTM D470
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	-39.0	°C	DSC
Melting Temperature	180	°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.	199	°C	
Cylinder Zone 2 Temp.	204	°C	
Cylinder Zone 3 Temp.	204	°C	
Cylinder Zone 4 Temp.	210	°C	
Adapter Temperature	213	°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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