

Lubrizol Estane® ETE 55DS3 Thermoplastic Polyurethane, Easy-to-Extrude

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Polyester Grade

Material Notes:

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, Profile. Injection molding: Various. Available in Americas, Europe, Middle East, Africa, India and Asia. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-ETE-55DS3-Thermoplastic-Polyurethane-Easy-to-Extrude.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52 - 58	52 - 58	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	71.0 MPa	10300 psi	ASTM D412
Elongation at Break	440 %	440 %	ASTM D412
100% Modulus	0.0145 GPa	2.10 ksi	ASTM D412
300% Modulus	0.0331 GPa	4.80 ksi	ASTM D412
Tear Strength	35.9 kN/m	205 pli	Trouser; ASTM D470
Graves Tear Strength	154 kN/m	880 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	58	58	H-18 wheel; ASTM D3389
	@Load 1.00 kg	@Load 2.20 lb	

Thermal Properties	Metric	English	Comments
Melting Point	180 °C	356 °F	DSC
Glass Transition Temp, Tg	-39.0 °C	-38.2 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	199 °C	390 °F	Extrusion
Zone 2	204 °C	399 °F	Extrusion

Processing Properties	Metric	English	Comments
Zone 4	210 °C	410 °F	Extrusion
Adapter Temperature	213 °C	415 °F	5, Extrusion
Die Temperature	210 °C	410 °F	6, Zone 1, Extrusion
	210 °C	410 °F	Zone 2, Extrusion
Drying Temperature	104 °C	219 °F	
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	
Dew Point	-40.0 °C	-40.0 °F	

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