

Lubrizol Estane® MVT 70AT3 Thermoplastic Polyurethane, Moisture Vapor Transmission

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

Material Notes:

Type: Estane® MVT 70AT3 is an aromatic polyether-based thermoplastic polyurethane (TPU).Features: High moisture vapor transmission with low water swell. Excellent low temperature properties and elasticity.Uses: Blown and flat die/cast film extrusion, injection molding and cable jacketing.Complies with FDA 177.1680 and FDA 177.2600Available in Americas, Europe, Middle East, Africa, India and AsiaInformation Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-MVT-70AT3-Thermoplastic-Polyurethane-Moisture-Vapor-Transmission.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Vapor Transmission	420 g/m ² /day	27.0 g/100 in ² /day	ASTM E96B
	3200 g/m ² /day	206 g/100 in ² /day	ASTM D6701
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength, Ultimate	36.5 MPa	5300 psi	ASTM D412
Elongation at Break	730 %	730 %	ASTM D412
100% Modulus	0.00340 GPa	0.493 ksi	ASTM D412
300% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
Tear Strength	19.3 kN/m	110 pli	Trouser; ASTM D470
Graves Tear Strength	66.6 kN/m	380 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	17	17	H-18 wheel; ASTM D3389
	@Load 1.00 kg	@Load 2.20 lb	
Tensile Set	6.0 %	6.0 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	DSC

Thermal Properties	150 °C Metric	302 °F English	Kofler Comments
Glass Transition Temp, Tg	-70.0 °C	-94.0 °F	DSC

Processing Properties	Metric	English	Comments
Zone 1	171 °C	340 °F	Extrusion
Zone 2	177 °C	351 °F	Extrusion
Zone 3	182 °C	360 °F	Extrusion
Zone 4	188 °C	370 °F	Extrusion
Adapter Temperature	193 °C	379 °F	5, Extrusion
Die Temperature	193 °C	379 °F	6, Zone 1, Extrusion
	193 °C	379 °F	Zone 2, Extrusion
Drying Temperature	82.0 °C	180 °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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