

Lubrizol Estane® MVT 80AF3 Thermoplastic Polyurethane, Moisture Vapor Transmission

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

Material Notes:

Type: Estane® MVT 80AF3 TPU is a aromatic polyether-based thermoplastic polyurethane (TPU).Features: High moisture vapor transmission, good low temperature properties and elasticity.Uses: Blown and flat die/cast film extrusion.Available 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-80AF3-Thermoplastic-Polyurethane-Moisture-Vapor-Transmission.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Water Vapor Transmission	650 g/m ² /day	41.9 g/100 in ² /day	50% RH, Upright Cup, Water; ASTM E96B
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6000 g/m ² /day	386 g/100 in ² /day	98% RH, Upright Cup, Water; MOCON
	@Temperature 38.0 °C	@Temperature 100 °F	
	9500 g/m ² /day	612 g/100 in ² /day	90% RH, Upright Cup, Desiccant; ASTM E96E
	@Temperature 38.0 °C	@Temperature 100 °F	
Melt Flow	54 g/10 min	54 g/10 min	ASTM D1238
	@Load 8.70 kg, Temperature 190 °C	@Load 19.2 lb, Temperature 374 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	80	80	ASTM D2240
Hardness, Shore D	77 - 83	77 - 83	ASTM D2240
Tensile Strength, Ultimate	27.6 MPa	4000 psi	ASTM D412/D638
Elongation at Break	800 %	800 %	ASTM D412/D638
Tensile Modulus	0.0138 GPa	2.00 ksi	500%; ASTM D412/D638
100% Modulus	0.00410 GPa	0.595 ksi	ASTM D412/D638
300% Modulus	0.00690 GPa	1.00 ksi	ASTM D412/D638
Tear Strength	16.7 kN/m	95.0 pli	Split Tear Resistance; ASTM D470
	68.4 kN/m	390 pli	
	81	81	Die C; ASTM D624

Taber Abrasion, mg/1000 Cycles Mechanical Properties	Metric @Load 1.00 kg	English @Load 2.20 lb	H-18 wheel; ASTM D3389 B Comments
Compression Set	17 % @Load 0.0000224 kg, Temperature 23.0 °C	17 % @Load 0.0000484 lb, Temperature 73.4 °F	ASTM D395
Tensile Set	10 %	10 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Vicat Softening Point	68.0 °C	154 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Zone 1	166 - 177 °C	331 - 351 °F	Extrusion
Zone 2	170 - 182 °C	338 - 360 °F	Extrusion
Zone 3	177 - 188 °C	351 - 370 °F	Extrusion
Zone 4	182 - 193 °C	360 - 379 °F	Extrusion
Adapter Temperature	182 - 193 °C	360 - 379 °F	Extrusion
Die Temperature	177 - 188 °C	351 - 370 °F	Zone 2, Extrusion
	182 - 193 °C	360 - 379 °F	Zone 1, Extrusion
Screw Speed	15 - 40 rpm	15 - 40 rpm	

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