

Lubrizol ESTANE® 58245 Ether Based Thermoplastic Polyurethane

Category : Polymer , Thermoplastic , Elastomer, TPE , Polyurethane, TP , Thermoplastic Polyurethane, Elastomer, Ether Grade

Material Notes:

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 Asia. Information provided by Lubrizol.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-ESTANE-58245-Ether-Based-Thermoplastic-Polyurethane.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	23°C, 50% RH; ASTM D96B
	6500 g/m ² /day	419 g/100 in ² /day	38°C, 90% RH; ASTM D6701
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	77 - 83 @Time 5.00 sec	77 - 83 @Time 0.00139 hour	ASTM D2240
Tensile Strength	31.0 MPa	4500 psi	ASTM D412
Elongation at Break	700 %	700 %	ASTM D412
100% Modulus	0.00450 GPa	0.653 ksi	ASTM D412
300% Modulus	0.00830 GPa	1.20 ksi	ASTM D412
Tear Strength	17.5 kN/m	100 pli	ASTM D470
Graves Tear Strength	61.4 kN/m	350 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	60	60	H18, 1000g; ASTM D3389
Tensile Set	10 %	10 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	135 °C	275 °F	DSC
	135 °C	275 °F	Kofler
Glass Transition Temp, Tg	-37.0 °C	-34.6 °F	DSC

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
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	Extrusion
Die Temperature	193 °C	379 °F	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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