

Lubrizol Estane® 58437 Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® 58437 is an 85A aromatic polyester-based thermoplastic polyurethane (TPU). Features: Excellent cold temperature properties and improved heat resistance. Uses: Blown and flat die/cast film extrusion and tubing and profile extrusion. Information Provided by The Lubrizol Corporation

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-58437-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82 - 88	82 - 88	ASTM D2240
	@Time 5.00 sec	@Time 0.00139 hour	
Tensile Strength	42.7 MPa	6190 psi	ASTM D412
Elongation at Break	560 %	560 %	ASTM D412
100% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
300% Modulus	0.00970 GPa	1.41 ksi	ASTM D412
Tear Strength	24.5 kN/m	140 pli	Trouser; ASTM D470
Graves Tear Strength	78.9 kN/m	450 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	23	23	H-18 wheel; ASTM D3389
	@Load 1.00 kg	@Load 2.20 lb	
Tensile Set	12 %	12 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
Melting Point	167 °C	333 °F	DSC
	168 °C	334 °F	Kofler
Glass Transition Temp, Tg	-40.0 °C	-40.0 °F	DSC

Optical Properties	Metric	English	Comments
Haze			pressed between glass; ASTM D1003

Optical Properties	^{5.4%} Metric	^{5.4%} English	Comments
Processing Properties	Metric	English	Comments
Zone 1	182 °C	360 °F	Extrusion
Zone 2	188 °C	370 °F	Extrusion
Zone 3	193 °C	379 °F	Extrusion
Zone 4	199 °C	390 °F	Extrusion
Adapter Temperature	199 °C	390 °F	5, Extrusion
Die Temperature	199 °C	390 °F	Zone 1, 6, Extrusion
	199 °C	390 °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	

Descriptive Properties	Value	Comments
Volume Swell in Jet fuel (JP8)	4.9%	24h/23°C, ASTM D471

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