

## Lubrizol Estane® 58252 Thermoplastic Polyurethane

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

### Material Notes:

Type: Estane® 58252 is a 70A polyether-type thermoplastic polyurethane (TPU). Features: Formulated to have one of the highest MVT values within the thermoplastic polyurethane class. It is also among the softest grades. Extruded or solution cast films of Estane 58252 TPU are non-porous and have very high moisture vapor transmission rates. Uses: Intended for cast film and solution coating applications. Available in 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-58252-Thermoplastic-Polyurethane.php](http://www.lookpolymers.com/polymer_Lubrizol-Estane-58252-Thermoplastic-Polyurethane.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Vapor Transmission	850 g/m <sup>2</sup> /day	54.7 g/100 in <sup>2</sup> /day	23°C, 50% RH, Water; ASTM E96B

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	70	70	ASTM D2240
Hardness, Shore D	22	22	ASTM D2240
Tensile Strength, Ultimate	19.3 MPa	2800 psi	ASTM D412; ASTM D638
Tensile Strength, Yield	9.00 MPa	1310 psi	500% elongation; ASTM D412; ASTM D638
Elongation at Break	800 %	800 %	ASTM D412; ASTM D638
Tensile Modulus	0.00670 GPa	0.972 ksi	400% elongation; ASTM D412; ASTM D638
100% Modulus	0.00280 GPa	0.406 ksi	ASTM D412; ASTM D638
200% Modulus	0.00360 GPa	0.522 ksi	ASTM D412; ASTM D638
300% Modulus	0.00470 GPa	0.682 ksi	ASTM D412; ASTM D638
Tear Strength	68.4 kN/m	390 pli	Trouser; ASTM D470
Graves Tear Strength	47.3 kN/m	270 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	140 @Load 1.00 kg	140 @Load 2.20 lb	H-18 wheel; ASTM D3389-94
Tensile Set	7.0 %	7.0 %	200% elongation; ASTM D412

Thermal Properties	Metric	English	Comments
--------------------	--------	---------	----------

Melting Point Thermal Properties	130 °C Metric	266 °F English	DSC Comments
Vicat Softening Point	47.0 °C	117 °F	ASTM D1525
Glass Transition Temp, Tg	-28.0 °C	-18.4 °F	DSC

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China