

Lubrizol Estane® 58280 Thermoplastic Polyurethane

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

Material Notes:

Type: Estane® 58280 is a polyether-type thermoplastic polyurethane (TPU) compound. Features: High resiliency compound, with unique physical properties such as low tensile and compression set, high rebound resilience, good hysteresis and low specific gravity. Uses: General extrusion techniques or by injection molding. Excellent for applications such as cable jackets, hose and tubing, and a variety of injection molding applications such as wheel tires, rebound balls, etc. Available in Americas, 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-58280-Thermoplastic-Polyurethane.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.06 g/cc	1.06 g/cc	ASTM D792
Water Absorption	1.5 %	1.5 %	ASTM D570-95

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	79	79	ASTM D2240
Hardness, Shore D	27	27	ASTM D2240
Tensile Strength, Ultimate	24.9 MPa	3610 psi	ASTM D412; ASTM D638
Elongation at Break	750 %	750 %	ASTM D412; ASTM D638
100% Modulus	0.00380 GPa	0.551 ksi	ASTM D412; ASTM D638
300% Modulus	0.00680 GPa	0.986 ksi	ASTM D412; ASTM D638
Flexural Modulus	0.0162 GPa @Temperature 23.0 °C	2.35 ksi @Temperature 73.4 °F	ASTM D790
Rebound	72 %	72 %	ASTM D2632
Tear Strength	68.2 kN/m	389 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	45 @Load 1.00 kg	45 @Load 2.20 lb	H-18 wheel; ASTM D1044
Compression Set	7.8 % @Temperature 23.0 °C, Time 79200 sec	7.8 % @Temperature 73.4 °F, Time 22.0 hour	ASTM D395
	22.9 % @Temperature 70.0 °C,	22.9 % @Temperature 158 °F,	ASTM D395

Mechanical Properties	Time 79200 sec Metric	Time 22.0 hour English	Comments
Tensile Set	5.6 %	5.6 %	200% elongation; ASTM D412

Processing Properties	Metric	English	Comments
Zone 1	177 - 180 °C	351 - 356 °F	Extrusion
Zone 2	183 - 193 °C	361 - 379 °F	Extrusion
Zone 3	193 - 199 °C	379 - 390 °F	Extrusion
Zone 4	199 - 204 °C	390 - 399 °F	Extrusion
Adapter Temperature	210 °C	410 °F	Extrusion
Die Temperature	210 °C	410 °F	Zone 1, Extrusion
	210 °C	410 °F	Zone 2, Extrusion
Screw Speed	20 - 70 rpm	20 - 70 rpm	Extrusion

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