

Lubrizol Estane® 2103-84AEN Thermoplastic Polyurethane Elastomer

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

Material Notes:

Formerly Pellethane
Feature: Contains UV Stabilizer, NSF Standard 61 certified
Available in Americas, Europe, Middle East, Africa, India and Asia
Data provided by Lubrizol
Lubrizol acquired the Pellethane product line from Dow in 2009.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lubrizol-Estane-2103-84AEN-Thermoplastic-Polyurethane-Elastomer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.13 g/cc	1.13 g/cc	ASTM D792
Melt Flow	40 g/10 min @Load 1.20 kg, Temperature 224 °C	40 g/10 min @Load 2.65 lb, Temperature 435 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	82	82	ASTM D2240
Tensile Strength, Ultimate	34.5 MPa	5000 psi	ASTM D412
Elongation at Break	600 %	600 %	ASTM D412
50% Modulus	0.00410 GPa	0.595 ksi	ASTM D412
100% Modulus	0.00550 GPa	0.798 ksi	ASTM D412
300% Modulus	0.0117 GPa	1.70 ksi	ASTM D412
Tear Strength	105 kN/m	599 pli	Die C; ASTM D624
Taber Abrasion, mg/1000 Cycles	20	20	H-22 wheel (coarser), 1000g; ASTM D1044
Compression Set	30 %	30 %	22 hrs. @ 77°F (25°C); ASTM D395, Method B
	33 % @Temperature 70.0 °C	33 % @Temperature 158 °F	22 hrs.; ASTM D395, Method B
Tensile Set	70 %	70 %	Elongation Set After Break; ASTM D412

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	168 µm/m-°C @Temperature 20.0 °C	93.3 µin/in-°F @Temperature 68.0 °F	ASTM D696
Vicat Softening Point	85.0 °C	185 °F	120°C/hr, 9.8N; ASTM D1525

Thermal Properties	Metric	English	Comments
Glass Transition Temp. Tg	-40.0 °C	-40.0 °F	DSC

Processing Properties	Metric	English	Comments
Melt Temperature	182 - 199 °C	360 - 390 °F	Extrusion
	182 - 210 °C	360 - 410 °F	Molding
Mold Temperature	16.0 - 60.0 °C	60.8 - 140 °F	
Drying Temperature	82.0 - 93.0 °C	180 - 199 °F	air dew point <-40°C

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