



Estane® ALR E87A-V TPU

Lubrizol Advanced Materials, Inc. - Thermoplastic Polyurethane Elastomer

Wednesday, November 6, 2019

General Information

Product Description

Type: Estane® ALR E87A-V is a clear aliphatic Thermoplastic Polyurethane (TPU).

Features: Non-yellowing with good mechanical properties.

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Features	• Aliphatic
Appearance	• Clear/Transparent
Forms	• Pellets

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.08		ASTM D792
Molding Shrinkage - Across Flow	6.0E-3 to 0.010	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Flexural Modulus	3200	psi	ASTM D790
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress ² (100% Strain)	1000	psi	ASTM D412
Tensile Stress ² (200% Strain)	1900	psi	ASTM D412
Tensile Stress ² (300% Strain)	4300	psi	ASTM D412
Tensile Strength ² (Break)	7700	psi	ASTM D412
Tensile Elongation ² (Break)	390	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	87		ASTM D2240

Notes

¹ Typical properties: these are not to be construed as specifications.

² 20 in/min