

# Estane® ALR E87A-V TPU

Thermoplastic Polyurethane Elastomer

Lubrizol Advanced Materials, Inc.

## Message:

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

Features: Non-yellowing with good mechanical properties.

| General Information                     |                   |                   |             |
|-----------------------------------------|-------------------|-------------------|-------------|
| Features                                | Aliphatic         |                   |             |
| Appearance                              | Clear/Transparent |                   |             |
| Forms                                   | Pellets           |                   |             |
| Physical                                | Nominal Value     | Unit              | Test Method |
| Specific Gravity                        | 1.08              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Across Flow         | 0.60 to 1.0       | %                 | ASTM D955   |
| Hardness                                | Nominal Value     | Unit              | Test Method |
| Durometer Hardness (Shore A)            | 87                |                   | ASTM D2240  |
| Mechanical                              | Nominal Value     | Unit              | Test Method |
| Flexural Modulus                        | 22.1              | MPa               | ASTM D790   |
| Elastomers                              | Nominal Value     | Unit              | Test Method |
| Tensile Stress <sup>1</sup>             |                   |                   | ASTM D412   |
| 100% Strain                             | 6.89              | MPa               |             |
| 200% Strain                             | 13.1              | MPa               |             |
| 300% Strain                             | 29.6              | MPa               |             |
| Tensile Strength <sup>2</sup> (Break)   | 53.1              | MPa               | ASTM D412   |
| Tensile Elongation <sup>3</sup> (Break) | 390               | %                 | ASTM D412   |
| NOTE                                    |                   |                   |             |
| 1.                                      | 510 mm/min        |                   |             |
| 2.                                      | 510 mm/min        |                   |             |
| 3.                                      | 510 mm/min        |                   |             |

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