



ELASTOMONT

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TECHNICAL DATA SHEET – ELASTOTHANE

Polyurethane Sheeting (Wear Liner Sheets)

Description

ELASTOTHANE sheets are tough, resilient polyurethane elastomers designed for applications requiring excellent abrasion resistance. They provide a lightweight, easy-to-install solution with very good impact resistance, good low-temperature performance, noise reduction, corrosion resistance, and chemical resistance to aliphatic hydrocarbons, mild acids and mild bases.

Elastomont Benefits

- Outstanding abrasion resistance for longer service life
- Excellent impact resistance
- Lightweight liners that are easy to handle and install
- Noise reduction compared to bare metal surfaces
- Multiple formats and attachment options available to match the application

Temperature Resistance (In Service)

Parameter	Value
Continuous service temperature	80 °C
Short peaks	95 °C

Note: allowable temperature depends on contact pressure, speed, conveyed material, chemical exposure and the operating environment.

Available Formats

- Plain sheet
- Sheet with metal backing
- Sheet with fabric backing
- Sheet with weld-on washers (spot welding)

Recommended Applications

Recommended for handling abrasive materials (e.g., grain, soybeans, coal, taconite pellets, copper ore, phosphate rock, sand, gravel, salt, wood chips).

- Round and square spouts
- Hoppers, bins and surge tanks
- Chutes, ducts and flumes
- Conveyor troughs
- Elbows
- Cyclones (velocities < 4000 ft/min)
- Conveyor impact zones (belt overshot areas, impact pads)
- Distributors, turnheads and deflectors
- Belt scrapers and skirt boards
- Truck beds

Typical Technical Characteristics

Parameter	Value / Information
Hardness	85 Shore A (other durometers available)
Flash point	None
Melting point	400 °F
Decomposition temperature	500 °F
Flammability (ASTM D635, horizontal burn)	Does not sustain burning after the flame source is removed
Corrosion resistance	Excellent
Resistance to mild acids	Excellent
Resistance to mild bases	Excellent
Resistance to aliphatic hydrocarbons	Excellent
Limitations	Not recommended for prolonged exposure to steam, aromatic hydrocarbons, ketones, or strong acids/bases

Quality Control & Testing (ASTM)

Physical tests may be performed to ensure sheet consistency and quality. Typical test methods include:

- Tensile strength – ASTM D412
- Elongation – ASTM D412
- Taber abrasion – ASTM D4060 (H-18 wheel, 1000 revolutions, 1000 g load; weight loss in mg)
- Tear resistance – ASTM D624 (Die C; Split Tear)

Typical Weight – 4 ft x 10 ft Sheets (lb)

Thickness	Weight (lb)
1/8 in	35
3/16 in	45
1/4 in	65
5/16 in	80
3/8 in	95
1/2 in	125
3/4 in	195
1 in	250
2 in	500

Note: actual weights are typically accurate to $\pm 10\%$ for 1/8 in, 3/16 in, 1/4 in, 3/8 in; and $\pm 5\%$ for 1/2 in, 3/4 in, 1 in, 2 in.

For custom thicknesses, widths, durometers or cut-to-size parts, please contact Elastomont.