



## URETHANE SHEETING TECHNICAL INFORMATION

URETHANE Sheets are tough, Resilient elastomeric urethanes specifically designed for use in applications requiring abrasion resistance. Also provides lightweight, easy installation, excellent impact resistance, good low Temperature properties, noise reduction, corrosion resistance and chemical resistance to aliphatic hydrocarbons, mild acids & bases.

URETHANE Sheets Is recommended for use in material handling of any abrasive material including grain, soybeans, coal, taconite pellets, copper ore, phosphate rock, sand, gravel, salt and wood chips.

Appropriate Application areas for URETHANE Sheet linings include:

- Round And square spouts
- Hoppers, bins, surge tanks
- Chutes, ducts, flumes
- Conveyor troughs
- Elbows
- Cyclones (velocities less than 4000ft./min.)
- Belt overshot areas
- Distributors, turnheads, impact pads
- Belt scrapers, skirt boards
- Truck beds

### Hardness

85 Shore A durometer

Other durometers are also available.

### Flammability Characteristics (Call for information on Fire Fighter)

Flash point None

Melting point 400°F

Decomposition temperature 500°F

ASTM D--635 (horizontal burn) – does not support combustion after removal of flame source.

### Chemical Properties

Corrosion resistance Excellent

Resistance to mild acids Excellent

Resistance to bases Excellent

Resistance to aliphatic hydrocarbons Excellent

urethane is not recommended for use in prolonged exposure to steam, aromatic hydrocarbons, ketones, strong acids, or bases.



**URETHANE Sheet products conform to ASTM Standards Testing**

Physical Testing of URETHANE Sheet materials is performed every day to ensure consistent high quality products. This is one of the many Quality Control steps utilized as part of the ISO 9001-- 2008 registered quality system.

- Tensile Strength – ASTM #D412 -- breaking point psi;
- Elongation ASTM #D412 -- percentage stretched before breaking;
- Taber Abrasion – ASTM #D4060
  - o 4" diam. samples on an H--18 wheel for 1000 revolutions with a 1000 gram weight to measure weight loss in mg
- Tear Testing– ASTM #D624 – the ability to resist tearing.
  - o Die C
  - o Split Tear

**Weights:**

	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	3/4"	1"	2"
URETHANE Sheet	35	45	65	80	95	125	195	250	500

Typical weights in pounds for 4' x 10' sheets in the following thicknesses:

Actual weights are accurate within ± 10% for 1/8", 3/16", 1/4", 3/8" thicknesses. Actual weights are accurate within ± 5% for 1/2", 3/4", 1", 2" thicknesses.

NA – not available