

S-1 Technical Specifications

Material Description: Modified urethane elastomeric cross-linked material with additives to improve chemical and weathering resistance.

Available Thicknesses: 0.015", 0.030", 0.040". Non-backed

Typical Applications: Corrosion resistant against most organic solvents, alcohols, ketones, gasoline, jet fuel, oil, etc. Excellent for applications where abrasion resistance is desirable. Has excellent retention of physical and chemical properties at very low temperatures including cold crack, abrasion resistance, and resistance to oil, gasoline, jet fuel, etc.

All information is based on tests and field application. This information is believed to be reliable, but no responsibility will be assumed by Flexi-Liner Corporation for results based on this information.

PROPERTY	ASTM OR TEST METHOD	VALUE
Hardness, Shore A, 15 sec		75
Elmandorfer Tear, gr/mil		440
Tensile Strength, psi	D-412	2780 -4010
Modulus at 300% Elongation, psi		855 - 975
Elongation at Break, %	D-638	325
Graves Tear, lbs./in.	D-624	365 - 375
Taber Abrasion, 1000 Cycles		0.001 - 0.008
Vapor Transmission, CU. Ft./1000 sq. ft./24 hrs/100° F	Helium	0.097
	Gasoline	Negligible
	Air	Negligible

Resistance to Organic Materials:	Excellent (gasoline, oil, etc.)
Resistance to Abrasion	Excellent
Ozone Resistance	Excellent
Fungus Resistance	Excellent, no growth

Recommended for Acetaldehyde, Acetic Acid, Acetic Anhydride, Adipic Acid, Aluminum Salts, Ammonium Salts, Animal Fats & oils, ASTM Oil No. 1-4, ASTM Reference Fuel A & B, Atlantic Oil, Bunker Oil, ESSO Oil No. 90, Formaldehyde, Fuel Oil, Gasoline, Grease, Heptane, Hexane, Hydrocarbon Oil, Kerosene, Lubricating Oil, Mineral Oil, Propylene Glycol, Stoddard Solvent, Styrene, Turpentine and other hydrocarbon applications.

New Life for Old Tanks, Long Life for New Tanks