

Technical Specifications for FLEXI-LINER FORMULATION T-1

Material Description: Modified polyvinyl based terpolymer compound, for applications at elevated temperatures, up to 180° F. continuous use (depending on chemicals and mechanical conditions). For lining applications most comparable to polyvinyl butyral. White.

Available Thicknesses: 0.050, 0.065, 0.080, 0.100, 0.125, 0.187, 0.250 MILS. All single ply, extruded

Typical Applications: For use in wide temperature range applications. Extremely corrosion resistant against most inorganic acids, in a wide concentration range, against caustic, and a limited number of organic chemicals. To be used for almost all plating, etching, leaching solutions, all fertilizers, bleach steel pickling, for water reservoir lining, water purification, water treatment chemicals, paper chemicals, etc. For storage applications, most often used thicknesses are 0.065", 0.100" and 0.125". For process applications (metal finishing, neutralizing and other chemical reactions), most often used thicknesses are 0.125", 0.187" and 0.250". Different thicknesses can be combined for improved mechanical performance at reduced cost.

<u>PROPERTY</u>	<u>ASTM OR TEST METHOD*</u>	<u>VALUE</u>
Specific Gravity	D-12-27	1.30 - 1.32
Durometer Hardness "D"	D-676	62 - 67
Tensile Strength, psi	D-412	3200
Modulus at 300% elongation, psi		2200
Elongation at break, %		300
Graves tear, lbs./in.	D-624	420
Low temp. brittleness point	D-746	-32° F.
Distortion point		350° F.
Maximum temp. continuous operation		

Extraction: Loss <1% to 120,000 leach cycles in salt water 10% concentration at ambient temperature. Flexi-Liner test L-2. Modified D1239-55.

Water Vapor Transmission Test: < 1 cubic foot per 24 hours per 1,000 square feet at 50 mil thickness. Test performed at five inches water pressure at 100° F. Flexi-Liner test for helium and rare gases VR-1. Modified ASTM D1434.

Ultraviolet Resistance: Field experience to show a performance of over ten years direct exposure to California sun without failure, holding contents with pH of one or less.

** Using 0.050 MILS. 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.*