Table 24-1: Properties of Pipeline

Property	Initial value	After 112 days exposure in chemical solution as below
Tensile strength kN/m2	15.17	14.48
Elongation at break	200% minimum	200% minimum
Shore Durometer Type D: 10-sec	Inst. 50-60 35-50	+/- 5 maximum with respect to initial test result
Weight change		+/- 1.5% maximum

G. The Engineer may sample a specimen for each type of sheet or strip at any time during production or in the field prior to final acceptance. Assistance shall be provided in taking the samples. The specimens shall be tested to the following requirements:

i. Liners shall be tested for holes, using an approved spark tester set at a minimum of 20,000 volts. Repair holes in sheets and retest prior to shipments.

ii. Tensile test shall be done on specimens in accordance with ASTM D412 using DIE B. Use weight change test on specimens of 25mm x 75mm in size and of specified sheet thickness. The specimens shall be conditioned to a constant temperature of 43 °C after submersion in the following solutions for a period of 112 days at 25°C. At 28 day intervals, remove the specimens and record weight change from each of the chemical solutions.

Table 24-2: Chemical Concentraton

Chemical Solution	Concentration
Sulphuric acid	15%*
Sodium Hydroxide	5%
Ammonium Hydroxide	5%*
Sodium Hydroxide	1%*
Nitric Acid	1%*
Ferric Chloride	1%
Soap	0.1%
Detergent (linear alkyl benzyl sulfonate or gas)	0.1%