

LifeLast Chemical Resistance Sheet

LEGEND

R = RECOMMENDED FOR TOTAL SERVICE (LITTLE EFFECT AFTER SEVEN(7) DAYS IMMERSION); RECOMMENDED FOR PRIMARY CONTAINMENT

LR = LIMITED RECOMMENDATION (MATERIALS MAY SOFTEN WITH PROLONGED EXPOSURE); SUITABLE FOR SECONDARY CONTAINMENT AND SPLASH & SPILL APPLICATIONS; "COMPATIBLE" AFTER 72 HOURS

NR = NOT RECOMMENDED (RAPID ATTACK)

NT = NOT TESTED (HAS NOT YET BEEN TESTED)

The chemical resistance information below is based upon LifeLast, Inc.'s "DuraShield 310" product. Updated 7/01/04

Reagent / Water:	
Activated Sludge	R
Distilled Water	R
Fresh Water	R
Oxygenated Water	R
Raw Sewage	R
Sea Water	R
Treated Effluent	R

Reagent / Acids:	
Acetic < 50%	R
Acetic > 50%	LR
Boric Acid	R
Chromic 10%	R
Chromic 50%	NR
Citric Acid 50%	R
Fluorosalicilic Acid 20%	R
Formic Acid	LR
Glacial Acetic	LR
Hydrobromic Acid	NT
Hydrochloric Acid 37%	R
Hydrochlorous Acid	LR
Hydrocyanic	R
Hydrofluoric 10%	R
Lactic 85%	R
Nitric 70%	LR
Phosphoric 85%	R
Sulfuric 50%	R
Sulfuric 70%	LR
Sulfuric 93%	NR
Tall Oil Fatty Acid	R
Tannic Acid	R
Trichloroacetic Acid	NR

Reagents/Alkalies/Salts:	
Ammonium Chloride	R
Ammonium Hydroxide	R
Ammonium Nitrate	R
Ammonium Sulfate	R
Barium Hydroxide	R
Barium Nitrate	R
Barium Sulfide	R
Calcium Bisulfate	R
Calcium Chloride	R
Calcium Hydroxide	R
Calcium Nitrate	R
Calcium Sulfate	R

Cuprous Chloride	R
Ferric Chloride	R
Ferric Sulfate	R
Magnesium Chloride	R
Magnesium Hydroxide	R
Magnesium Nitrate	R
Magnesium Sulfate	R
Nickel Chloride	R
Nickel Nitrate	R
Nickel Sulfate	R
Potassium Carbonate	R
Potassium Chloride	R
Potassium Cyanide	R
Potassium Hydroxide	R
Potassium Nitrate	R
Sodium Acetate	R
Sodium Bicarbonate	R
Sodium Bisulfite	R
Sodium Carbonate	R
Sodium Chloride	R
Sodium Hydroxide 50%	R
Sodium Nitrate	R
Sulphur Dioxide (dry)	R
Sulphur Dioxide (wet)	R
Titanium Sulfate	R
Zinc Chloride	R
Zinc Nitrate	R
Zinc Sulfate	R

Reagent / Solvents:	
Acetone	NR
Benzene	NR
Chlorinated Hydrocarbon	NR
Ethyl Acetate	LR
Ethyl Alcohol	LR
Furfuryl	NT
Furfuryl Alcohol	NT
Isopropyl Alcohol	LR
Isopropyl Ether	R
Lacquer Thinner	NR
Methanol	LR
Methyl Ethyl Ketone	NR
1-Methyl-Z-Pyrrolidinone	NR
Methylene Chloride	NR
N-Butyl Acetate	R
Stoddard Solvent	R

Styrene	NR
Toluol/ Toluene	LR
1,1,1-Trichloroethane	NR
Xylene	LR

Reagents / Misc.:	
Alum	R
Bakery Products	R
Beer	R
Bleach	R
Cheese	R
Chlorine Gas	R
Diborane	R
Ethylene Glycol	R
Formadehyde	LR
Freon TF	R
Hydrogen Sulfide	R
Liquid Nitrogen Fertilizer	R
Methane Gas	R
Milk	R
Natural Gas	R
Phenol	NR
Propylene Glycol	R
Pulp Liquor/Black	R
Pulp Liquor/Green	R
Pulp Liquor/White	R
Siloxane	R
Skydrol	LR
Soft Drink Concentrate	R
Sulfolane - W	R
Syrup	R
Urea	R
Vegetable Oils	R
Yeast	R

Reagent/ Aliphatic Hydrocarbons:	
Crude Oil	R
Diesel	R
Gasoline	LR
Hexane	LR
Hydraulic Oil	R
JP4 Jet Fuel	R
Kerosene	R
Mineral Spirits	LR
Motor Oil	R
Naphtha	LR

Tests for the above chemical resistances were completed at our customer's specifications. This corresponds to immersion tests ranging from two days to several years. Most of the immersion tests were completed for a minimum of seven (7) days.

THIS CHEMICAL RESISTANCE CHART IS TO BE USED AS A GUIDELINE. BEFORE USING LIFELAST POLYURETHANES IN HARSH CHEMICAL ENVIRONMENTS, INCLUDING ELEVATED TEMPERATURES, CONTACT A LIFELAST REPRESENTATIVE.