

### 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

<b>Reagent / Water:</b>		Cuprous Chloride	R	Styrene	NR
Activated Sludge	R	Ferric Chloride	R	Toluol/ Toluene	LR
Distilled Water	R	Ferric Sulfate	R	1,1,1-Trichloroethane	NR
Fresh Water	R	Magnesium Chloride	R	Xylene	LR
Oxygenated Water	R	Magnesium Hydroxide	R	<b>Reagents / Misc.:</b>	
Raw Sewage	R	Magnesium Nitrate	R	Alum	R
Sea Water	R	Magnesium Sulfate	R	Bakery Products	R
Treated Effluent	R	Nickel Chloride	R	Beer	R
<b>Reagent / Acids:</b>		Nickel Nitrate	R	Bleach	R
Acetic < 50%	R	Nickel Sulfate	R	Cheese	R
Acetic > 50%	LR	Potassium Carbonate	R	Chlorine Gas	R
Boric Acid	R	Potassium Chloride	R	Diborane	R
Chromic 10%	R	Potassium Cyanide	R	Ethylene Glycol	R
Chromic 50%	NR	Potassium Hydroxide	R	Formaldehyde	LR
Citric Acid 50%	R	Potassium Nitrate	R	Freon TF	R
Fluorosalicilic Acid 20%	R	Sodium Acetate	R	Hydrogen Sulfide	R
Formic Acid	LR	Sodium Bicarbonate	R	Liquid Nitrogen Fertilizer	R
Glacial Acetic	LR	Sodium Bisulfite	R	Methane Gas	R
Hydrobromic Acid	NT	Sodium Carbonate	R	Milk	R
Hydrochloric Acid 37%	R	Sodium Chloride	R	Natural Gas	R
Hydrochlorous Acid	LR	Sodium Hydroxide 50%	R	Phenol	NR
Hydrocyanic	R	Sodium Nitrate	R	Propylene Glycol	R
Hydrofluoric 10%	R	Sulphur Dioxide (dry)	R	Pulp Liquor/Black	R
Lactic 85%	R	Sulphur Dioxide (wet)	R	Pulp Liquor/Green	R
Nitric 70%	LR	Titanium Sulfate	R	Pulp Liquor/White	R
Phosphoric 85%	R	Zinc Chloride	R	Siloxane	R
Sulfuric 50%	R	Zinc Nitrate	R	Skydrol	LR
Sulfuric 70%	LR	Zinc Sulfate	R	Soft Drink Concentrate	R
Sulfuric 93%	NR	<b>Reagent / Solvents:</b>		Sulfolane - W	R
Tall Oil Fatty Acid	R	Acetone	NR	Syrup	R
Tannic Acid	R	Benzene	NR	Urea	R
Trichloroacetic Acid	NR	Chlorinated Hydrocarbon	NR	Vegetable Oils	R
<b>Reagents/Alkalies/Salts:</b>		Ethyl Acetate	LR	Yeast	R
Ammonium Chloride	R	Ethyl Alcohol	LR	<b>Reagent/ Aliphatic Hydrocarbons:</b>	
Ammonium Hydroxide	R	Furfuryl	NT	Crude Oil	R
Ammonium Nitrate	R	Furfuryl Alcohol	NT	Diesel	R
Ammonium Sulfate	R	Isopropyl Alcohol	LR	Gasoline	LR
Barium Hydroxide	R	Isopropyl Ether	R	Hexane	LR
Barium Nitrate	R	Lacquer Thinner	NR	Hydraulic Oil	R
Barium Sulfide	R	Methanol	LR	JP4 Jet Fuel	R
Calcium Bisulfate	R	Methyl Ethyl Ketone	NR	Kerosene	R
Calcium Chloride	R	1-Methyl-Z-Pyrrolidinone	NR	Mineral Spirits	LR
Calcium Hydroxide	R	Methylene Chloride	NR	Motor Oil	R
Calcium Nitrate	R	N-Butyl Acetate	R	Naphtha	LR
Calcium Sulfate	R	Stoddard Solvent	R		



## ***DuraShield 310* Chemical Resistance Sheet**

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.***