



CHEMICAL RESISTANCE TABLE FOR DELTA POLYUREA XT PLUS

Test Method	ASTM-3908 Modified (One Year Immersion)
Sample Description	500mm x 500 mm carbon steel plate- SA 2.5 surface profile
Test Description	Samples coated to 1000μ (1.0 mm) DFT cured for 24 hours at 24°C

Results Key	0% - 2% Change	=	R	Recommended No Effect
	2% - 5% Change	=	C	Recommended Slight Effect
	6% - 15% Change	=	RC	Recommended Conditional
	16% + Change	=	F	Failure Not Recommended

S/No	Chemicals	Start Mass (grams)	End Mass (grams)	Percent of Change	Result	Comments
1	1,1,1-Trichlorethane	135	137.1	1.53%	RC	Swelling and blisters, visible damage
2	Acetic Acid	135	135.1	0.07%	R	No effect
3	Acetone	135	137.5	1.82%	R	No effect
4	Ammonium Hydroxide (20%)	135	135	0.00%	R	No effect
5	Antifreeze/Water (50:50)	135	137.1	1.53%	R	No effect
6	Benzene	135	139.2	3.02%	C	Some swelling, no visible damage
7	Brake Fluid (Dot 3)	135	141.1	4.32%	C	Some swelling, no visible damage
8	Brine-Salt Water (180g/L) Seawater	135	135.2	0.15%	R	No effect
9	Brine-Salt Water (310g/L) Sat. Sol	135	135.3	0.22%	R	No effect
10	Citric Acid (50%)	135	135.6	0.44%	R	No effect
11	Clorox (10% in water)	135	135	0.00%	R	Slight discoloration, no visible damage
12	Copper Chromate Arsenic (4%)	135	135.1	0.07%	R	No effect
13	Diesel Fuel (Kerr-McGee)	135	135.9	0.66%	R	No effect
14	Hydraulic Fluid	135	135	0.00%	R	No effect
15	Hydrochloric Acid (10%)	135	134.9	-0.07%	R	No effect
16	Hydrofluoric Acid (10%)	135	F	Failure	F	Cracking, Bubbles, Disintegration
17	Isopropyl Alcohol	135	135.5	0.37%	R	No effect
18	Lactic Acid (50%)	135	135.1	0.07%	R	No effect
19	Liquid Nitrogen Fertilizer (28-0-0)	135	135.5	0.37%	R	No effect
20	Liquid Urea Fertilizer	135	136	0.74%	R	No effect
21	Methanol	135	135.6	0.44%	R	No effect
22	Methyl Ethyl Ketone (MEK)	135	142.8	5.46%	RC	Little swelling, no visible damage
23	Methyl Tertiary Butyl Ether (MTBE)	135	140.3	3.78%	C	Slight swelling, no visible damage
24	Methylene Chloride	135	F	Failure	F	Swelling and blisters, visible damage
25	Methyl-N-Amyl Ketone (M.A.K.)	135	139.9	3.50%	C	Some swelling, no visible damage
26	Mineral Spirits	135	136.7	1.24%	R	No effect



S/No	Chemicals	Start Mass (grams)	End Mass (grams)	Percent of Change	Result	Comments
27	Motor Oil (Pennzoil 10 w 30)	135	135.7	0.52%	R	Slight discoloration, no visible damage
28	Muriatic Acid (17.1%)	135	136.4	1.03%	R	No effect
29	Muriatic Acid (31.45%)	135	F	Failure	F	48 Hours Contact OK
30	NaCl / Water (10%)	135	135	0.00%	R	No effect
31	Nitric Acid (20%)	135	F	Failure	F	Swelling and blisters, visible damage
32	Nitric Acid (50%)	135	F	Failure	F	Swelling and blisters, visible damage
33	Phosphoric Acid (10%)	135	135.4	0.30%	R	No effect
34	Phosphoric Acid (50%)	135	F	Failure	F	Swelling and blisters, visible damage
35	PM Acetate	135	135.5	0.37%	R	No effect
36	Potassium Hydroxide (10%)	135	135.5	0.37%	R	No effect
37	Potassium Hydroxide (20%)	135	137	1.46%	R	Slight discoloration, no visible damage
38	Propylene Carbonate (Jeffsol PC)	135	136.2	0.88%	R	No effect
39	Skydrol	135	142.1	5.00%	C	Little swelling, no visible damage
40	Sodium Bicarbonate-Solid	135	135	0.00%	R	No effect
41	Sodium Hydroxide (25%)	135	135.1	0.07%	R	No effect
42	Sodium Hydroxide (50%)	135	135.1	0.07%	R	Slight discoloration, no visible damage
43	Sodium Hypochlorite (Sat. Solution)	135	135.9	0.66%	R	Slight discoloration, no visible damage
44	Sour Brine (120,000ppm H ₂ S)	135	135.9	0.66%	R	No effect
45	Sour Condensate	135	F	Failure	F	Short term exposure acceptable
46	Sour Crude (120,000ppm H ₂ S)	135	136.4	1.03%	R	No effect
47	Stearic Acid (50%)	135	137.1	1.53%	C	Slight discoloration, no visible damage
48	Sugar/Water (10%)	135	135.1	0.07%	R	No effect
49	Sulphuric Acid (22%)	135	134.9	-0.07%	R	No effect
50	Sulphuric Acid (50%)	135	F	Failure	F	Cracking, Blisters, Discolouration
51	Sulphuric Acid (98%)	135	F	Failure	F	Cracking, Blisters, Discolouration
52	Toluene	135	135.2	0.15%	R	No effect
53	Trisodium Phosphate (TSP)	135	135.6	0.44%	R	No effect
54	Unleaded Gasoline (5% Methanol)	135	135.4	0.30%	R	No effect
55	Unleaded Gasoline (5% MTBE)	135	136.4	1.03%	R	No effect
56	Unleaded Gasoline (Texaco)	135	136	0.74%	R	No effect
57	Vingear/Water (5:95)	135	135.2	0.15%	R	No effect
58	Wastewater - Storm. Water. Pond- SOC	135	135.4	0.30%	R	No effect
59	Wastewater - Anaerobic Digester - AC	135	135.5	0.37%	R	No effect
60	Wastewater - API Separators MO	135	136.5	1.10%	R	No effect



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61	Wastewater - Clarifier - FSO	135	135	0.00%	R	No effect
62	Wastewater - Clariflocculator FSO	135	135.2	0.15%	R	No effect
63	Wastewater - Equalization Basin - AC	135	135	0.00%	R	No effect
64	Wastewater - Rapid Charcoal Filters - FSO	135	135.2	0.15%	R	No effect
65	Water (Tap) (25°C)	135	135.1	0.07%	R	No effect
66	Water (Tap) (82°C)	135	135.2	0.15%	R	No effect
67	Xylene	135	141.6	4.66%	C	Slight swelling, no visible damage