MOLTOPLAST healthcare

Resistance of MOMOSAN® white to chemical agents

(MOMOSAN clima see MPF)

Nr.	Chemical agent	Concentration	Tensile Strength humid	Tensile Strength dry	Compression set	Compression Load Deflection	Volume variation humid	Volume variation dry	Notes
1	Acetone		◕	○	◑	◔	◑	○	
2	Ammonium hydroxide	10%	◔	◔	◔	◔	○	○	
3	Ammonium hydroxide	2 %	◔	○	◔	◔	○	○	
4	Formic acid	conc.		◕	◕		●		
5	Aniline		◕	◔	◕	◕	◕	◔	
6	Ethyl alcohol conc.	conc.	◑	○	◑	◔	◔	○	
7	Ethyl alcohol	50 %	◑	○	◑	◔	◔	○	
8	Ethyl acetate		◕	◔	◑	◔	◑	○	
9	Ethyl chloride		◕	○	◕	◑	◕	○	
10	Ether		○	○	◔	○	◔	○	
11	Gasoline with 10% Benzol		○	○	◑	○	◔	○	
12	Benzol		◕	◔	◔	◔	◑	○	
13	Clorophen A60		◑	◑			◔	◔	
14	Chlorobenzene		◕	○	◑	◑	◑	○	
15	Glycolmonoethylether		◕	◔	◔	◑	◑	○	
16	Chromic acid	10%	●						
17	Dekalin		◕	◔	◑	◔	○	○	
18	Desavin		◑	◕	○	◕	◑	◑	
19	Dimethylformamide		●						
20	Dibutylphtalate		◔	◑	○	◑	◔	◔	
21	Diesel DIN 51601		◔	◔	◔		◔	○	
22	Glacial acetic acid		◔	◔	◕	◑	◕	○	Light yellowing
23	Diluited acetic acid	5 %	◔	◔	◑	◔	○	○	
24	Diluited hydrofluoric acid	5 %	◕	◕	◕	◕	○	○	
25	Formaldehyde	30 %	○	◔	○	◔	○	○	Light yellowing
26	Formaldehyde	1,5 %	○	○	○	◔	○	○	Light yellowing
27	Glutolina		○	○	○	◔	○	○	
28	Timber oil		○	◔	○	◔	○	○	Yellowing
29	Potassium hydroxide	conc.	●						
30	Potassium hydroxide	10 %	●						
31	Slaked lime (satured)	saturated	◕	◕	◑	◕	○	○	
32	M. cresol		●						
33	Animal oil		○	○	○	○	○	○	
34	Linseed oil		○	○	◑	○	○	○	Yellowing
35	Lignin		○	○	◔	○	○	○	
36	Seawater		○	○	◔	◔	○	○	
37	Methylethylketone		◕	○	◑	◑	◑	○	
38	Mineral oil		○	○	◑	○	○	○	
39	Smooth caustic soda	conc.	●						
40	Smooth caustic soda	10 %	●						
41	Smooth caustic soda	1 %	◕	◕	◑	◑	○	○	
42	Sodium hypochlorite	1 %	◑	◔	◑	◔	○	○	Browning

Nr.	Chemical agent	Concentration	Tensile Strength humid	Tensile Strength dry	Compression set	Compression Load Deflection	Volume variation humid	Volume variation dry	Notes
43	Sodium chloride	saturated	○	○	◔	◔	○	○	
44	Sodium chloride	20 %	○	○	◔	◔	○	○	
45	Sodium chloride	5 %	○	○	◔	◔	○	○	
46	Sodium carbonate	20 %	◔	◔	◔	◔	○	○	
47	Sodium carbonate	2 %	◔	○	◔	◔	○	○	
48	Wetting agents (nekal BX)	2 %	◔	○	◑	○	◔	○	
49	Nitrobenzene		◕	○	◑	◑	◑	◔	Yellowing
50	Oleic acid		◔	◔	◔	◔	◔	○	
51	Paraffin oil		○	○	○	○	○	○	
52	Phenol solution	8 %	◕	◕	◕	◕	◕	◑	
53	Phosphoric acid	conc.	●	◔	◔	◑	○	○	
54	Phosphoric acid	10 %	○	◔	◔	◔	○	○	
55	Phosphoric acid	2 %	○						
56	Hydrochloric acid	conc.	●						
57	Hydrochloric acid	10 %	●						
58	Hydrochloric acid	5 %	●						
59	Nitric acid	conc.	●						
60	Nitric acid	10 %	●						
61	Sulfuric acid	conc.	●						
62	Sulfuric acid	10 %	●						
63	Sulfuric acid	3 %	◔	◑	◕	◑	○	○	
64	Sweat solution DIN 53957	alkaline	◔	◔	◔	◔	◔	○	
65	Sweat solution DIN 53957	acid	◔	○	◔	◑	◔	○	
66	Carbon disulphide	2 %	○	○	◔	◔	◔	○	
67	Soap solution	10 %	○	○	◔	◑	○	○	
68	Sodium carbonate solution		○	◔	◔	◔	◔	○	
69	Seed oil		○	○	◔	◔	○	○	
70	Carbon tetrachloride		◔	○	◔	◔	◔	○	
71	Gasoline DIN 51636		○	○	◑	○	◔	○	
72	Turpentine oil		◔	◔	◔	◔	◔	○	
73	Toluene		◕	◔	◔	◔	◑	○	
74	50% gasoline								
	Mixture of volatile: 40% benzene		◔	◔	◔	◑	◑	○	
	10% ethanol								
75	Trichloroethylene		◕	○	◕	◑	◑	○	
76	Tricresylphosphate		◕	◕	○	◕	◔	◔	
77	Distilled water		◔	○	○	○	○	○	
78	Hydrogen Peroxide	10 %	○	○	◑	◔	○	○	Light yellowing
79	Hydrogen Peroxide	3 %	○	○	◔	○	○	○	
80	Softening		◕	◕			◔	◔	
81	Xylene		◑	○	◔	◔	◔	○	
82	Citric acid (10%)	10 %	◔	◔	◑	◔	○	○	

TENSILE STRENGTH:
- ○ Unchanged
- ◔ Worsening of 10-30%
- ◑ Worsening of 30-50%
- ◕ Worsening of more than 50%
- ● Sample destroyed

COMPRESSION SET:
- ○ Unchanged
- ◔ Increase of 2-3 times
- ◑ Increase of 3-5 times
- ◕ Increase of more than 5 times
- ● Sample destroyed

COMPRESSION LOAD DEFLECTION:
- ○ Unchanged
- ◔ Decrease of 10-20%
- ◑ Decrease of 20-50%
- ◕ Decrease of more than 50%
- ● Sample destroyed

VOLUME VARIATION:
- ○ Swelling of 0-5%
- ◔ Swelling of 5-30%
- ◑ Swelling of 30-100%
- ◕ Swelling of 100-200%
- ● Swelling of more than 200%

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