

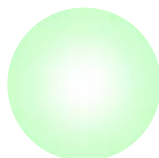
## Chemical resistance of “Soarnol<sup>®</sup>”

Chemical resistance of “Soarnol<sup>®</sup>” is shown in the following.

### Basin chemical reagent

<i>Chemical reagent</i>	<i>Weight change (%)</i>	<i>Comment</i>
Distilled water	+3.1	
Concentrated sulphuric acid	—	Carbonization
30% aq. sulphuric acid	+2.7	Swelling slightly
3% aq. sulphuric acid	+1.6	
Concentrated nitric acid	—	Carbonization
10% aq. nitric acid	+2.5	
10% aq. hydrochloric acid	+2.5	
Glacial acetic acid	—	Swelling slightly
5% aq. acetic acid	+2.5	
40% aq. sodium hydroxide	+2.0	
10% aq. sodium hydroxide	+2.2	
1% aq. sodium hydroxide	+2.8	
10% aq. ammonia	+2.5	
10% aq. sodium chloride	+2.8	
2% aq. sodium chloride	+3.3	
3% aq. hydrogen peroxide	+2.6	
10% aq. citric acid	+3.4	
5% aq. phenol	+5.0	Swelling slightly





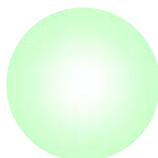
**Solvents**

<i>Chemical reagent</i>	<i>Weight change (%)</i>	<i>Comment</i>
Methyl alcohol	+3.20	
Ethyl alcohol	+0.88	
Isopropyl alcohol	+0.01 or less	
n-Pentane	+0.01 or less	
Ethyl ether	+0.01 or less	
Acetone	+0.01 or less	
Methyl ethyl ketone	+0.01 or less	
Ethyl acetate	+0.01 or less	
Carbon tetrachloride	+0.01 or less	
Ethane dichloride	+0.01 or less	
Isobutyl aldehyde	+0.01 or less	
Benzene	+0.01 or less	
Toluene	+0.03	
Aniline	+0.01 or less	
Trichloroethylene	+0.01	
Perchloroethylene	+0.01 or less	
Vinyl chloride (gas)	+0.01 or less	

Specimen : 3mm × 100mmφ disk of Soarnol D, injection molded

Test condition : Dipping at 23°C for 7 days





**General-purpose oils and fats**

<i>Chemical reagent</i>	<i>Weight change (%)</i>	<i>Comment</i>
Gasoline	+0.01 or less	
Lamp oil	+0.01 or less	
Heavy oil	+0.01 or less	
Petroleum benzine	+0.01 or less	
Thinner	+0.01 or less	
Kerosine	+0.01 or less	
Machine oil	+0.01 or less	
Spring oil	+0.02 or less	
Grease	+0.01 or less	
Silicone oil	+0.01 or less	
Glycerine	+0.05	
LPG	+0.01 or less	
Freon #12 (liquid)	+0.11	
Freon #22 (liquid)	+0.11	

