

## (Acids, Alkalis and Solvents)

Swelling (Thickness change, %) on immersion in various chemicals for 10-16  $\mu$ m thickness film. (Typical values only)

Chemicals	Immersing Condition	Parylene C		Parylene N		Typical Values	
						Epoxies	Urethanes
Hydrochloric acid 10 %	75 / 120min	A	-0.28	A	+0.08	B ~ C	C ~ D
Sulfuric acid 10 %	75 / 120min	A	-0.28	A	+0.07	A ~ B	C ~ D
Nitric acid 10 %	75 / 120min	A	-0.28	A	+0.15	D	D
Hydrofluoric acid 10 %	50 / 120min	A	+0.09	A	+0.37	B	D
NaOH solution 10 %	75 / 120min	A	-0.28	A	+0.15	A ~ B	B ~ C
NH4OH solution 10 %	75 / 120min	A	-0.38	A	+0.15	A	B ~ C
Hydrogen peroxide water (H2O2)	50 / 120min	A	0.00	A	0.00	C ~ D	C ~ D
n-Octane	75 / 120min	A	+0.28	A	+0.29	C	B
Toluene	75 / 120min	A	+1.32	A	+0.30	C	C
Monochlorobenzene	75 / 120min	A	+1.04	A	+0.37	D	
Pyridine	75 / 120min	A	+0.28	A	+0.29	D	C
2-Propanol (IPA)	50 / 120min	A	0.00	A	+0.07	C	B
Acetone	50 / 120min	A	-0.09	A	+0.15	C ~ D	C

**A- Excellent Resistance B- Good Resistance C- Possible to Use with Difficult D- No Good to Use**  
*[Typical Values of Epoxies and Urethanes are not tested by the same condition, but reference only]*