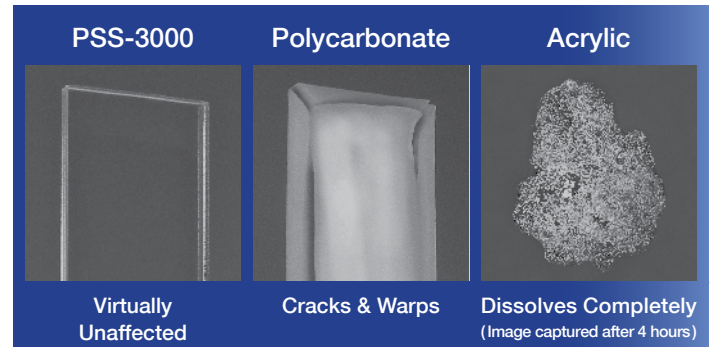


PSS-3000 Optical Sheet | Chemical Performance

Chemical Resistance

PSS-3000 optical sheet is virtually unaffected by most organic and inorganic chemicals as well as most substances encountered in harsh environments.

The photos to the right demonstrate the superior chemical resistance of PSS-3000 sheet when exposed to acetone for 7 days.



PERFORMANCE COMPARISON

CHEMICAL	PERCENT WEIGHT GAIN			COSMETIC CHANGE		
	PSS-3000	POLYCARBONATE	ACRYLIC	PSS-3000	POLYCARBONATE	ACRYLIC
Acetone	1.50	17.8	NA*	No visual change	Whitening / warping	Part dissolved
Coppertone® Sunscreen	0.55	0.18	0.55	No visual change	No visual change	Tacky cut edge
Ethyl Alcohol 95%	-0.21	0.07	0.14	No visual change	No visual change	Crazing / cracking
Unleaded Gasoline	-0.05	0.10	0.69	Slight yellowing	No visual change	Crazing / cracking
Hydrochloric Acid 10%	0.45	0.15	0.44	No visual change	No visual change	No visual change
Sodium Hydroxide 10%	0.20	0.03	0.41	No visual change	Hazy surface	No visual change
Windex® Cleaner	0.56	0.18	0.54	No visual change	No visual change	No visual change

This chemical resistance data was obtained using Chemical Resistance method D543 by submersing 3.0 mm thick pieces of uncoated PSS-3000 sheet, polycarbonate and acrylic into 7 common industrial and consumer chemicals and stored at 25°C for 7 days. At the end of the test period each sample was removed from the container, the residual chemical wiped off the sample and quickly weighed. The percentage weight gain was then calculated. (Testing conducted by STR)

*Part Dissolved

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