



201 Connecticut Drive | Burlington, NJ 08016 | USA
609-386-8770 | Fax: 609-386-8438 | www.ipcol.com

Plastic Compatibility of Aqueous Cleaners at 2%

Practice A: % Change in Mass and Surface Area of Selected Plastics After 24-hour Immersion in 2% Cleaning Solutions at 25°C.

Conclusion: Cleaners were found to be compatible with all plastics tested.

		MICRO-90®	LF2100®	MICRO® A07	SURFACE-CLEANSE/930®	ZYMIT® Low-foam	ZYMIT® Pro	Water (Control)
ABS	Δ Mass	+0.2%	+0.2%	+0.2%	+0.2%	+0.2%	+0.2%	+0.2%
	Δ Surface Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
Acrylic	Δ Mass	+0.3%	+0.2%	+0.2%	+0.2%	+0.2%	+0.3%	+0.3%
	Δ Surface Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
HDPE	Δ Mass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Δ Surface Area	0.0%	-0.1%	0.0%	+0.1%	0.0%	0.0%	0.0%
Nylon	Δ Mass	+0.6%	+0.6%	+1.0%	+0.6%	+1.0%	+0.9%	+0.4%
	Δ Surface Area	0.0%	0.0%	0.0%	0.0%	0.0%	+0.1%	+0.1%
PET	Δ Mass	0.0%	0.0%	+0.1%	0.0%	0.0%	+0.1%	0.0%
	Δ Surface Area	0.0%	+0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Polycarbonate	Δ Mass	+0.1%	+0.1%	+0.2%	+0.1%	+0.1%	+0.1%	+0.1%
	Δ Surface Area	-0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Polypropylene	Δ Mass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Δ Surface Area	0.0%	0.0%	0.0%	0.0%	+0.1%	0.0%	0.0%
Polyurethane	Δ Mass	+0.4%	+0.5%	+0.4%	+0.5%	+0.8%	+0.4%	+0.5%
	Δ Surface Area	+0.1%	0.0%	0.0%	0.0%	+0.1%	0.0%	0.0%
PPO	Δ Mass	+0.1%	0.0%	+0.1%	+0.1%	+0.1%	+0.1%	+0.1%
	Δ Surface Area	+0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%
PVC	Δ Mass	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Δ Surface Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Teflon	Δ Mass	0.0%	0.0%	0.0%	0.0%	-0.1%	0.0%	0.0%
	Δ Surface Area	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

Test Method: ASTM D543-95

The recommended concentration use for the above cleaners is 1.0% to 2.0%. Test data is provided for comparison purposes only. Individuals should conduct their own tests for compatibility verification. Please contact International Products Corporation for compatibility information on any plastic not shown.

For Sales and Service in Europe:

Unit 5, Green Lane Business Park | 238 Green Lane | London SE9 3TL | U.K.

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Practice B: 1% Strain of Plastic Coupons for 24 Hours, Wet Patch Method

Conclusion: Cleaners were found to be compatible with all plastics tested.

	Dry Samples (Control)	MICRO-90®	LF2100®	MICRO® A07	SURFACE- CLEANSE/930®	ZYMIT® Low-foam	ZYMIT® Pro
ABS	some crazing	equal to control	equal to control	equal to control	equal to control	equal to control	equal to control
Acrylic	no change	small amount of crazing	small amount of crazing	cracked	small amount of crazing	some crazing	cracked
HDPE	no change	no change	no change	no change	no change	no change	no change
Nylon	no change	no change	no change	no change	no change	no change	no change
PET	no change	no change	no change	crazing	no change	no change	crazing
Polycarbonate	no change	no change	no change	no change	small amount of crazing	no change	no change
Polypropylene	no change	no change	no change	no change	no change	no change	no change
Polyurethane	no change	no change	no change	no change	no change	no change	no change
PPO	no change	no change	no change	no change	no change	no change	no change
PVC	no change	no change	no change	no change	no change	no change	no change
Teflon	no change	no change	no change	no change	no change	no change	no change

Test Method: ASTM D543-95

The recommended concentration use for the above cleaners is 1.0% to 2.0%. Test data is provided for comparison purposes only. Individuals should conduct their own tests for compatibility verification. Please contact International Products Corporation for compatibility information on any plastic not shown.

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