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Plastic Compatibility of 2% CLEANERS At Room Temperature

CONCLUSION: A 2% solution of each of our cleaners was found to be compatible with the plastics listed below when immersed for a total of ten days at room temperature.

Customers are encouraged to conduct their own tests before using our cleaners.

PLASTIC	PROPERTY	1 Day, %Δ						10 Days, %Δ					
		MICRO-90®	MICRO® A07	LF 2100®	MICRO® GREEN CLEAN	SURFACE-CLEANSE/930®	Tap Water	MICRO-90®	MICRO® A07	LF 2100®	MICRO® GREEN CLEAN	SURFACE-CLEANSE/930®	Tap Water
ABS	%Δ Mass	+0.2	+0.2	+0.3	+0.2	+0.3	+0.2	+0.3	+0.4	+0.5	+0.1	+0.5	+0.4
	%Δ Hardness	-0.6	+0.6	-0.8	-0.4	+0.8	-0.6	-1.0	+0.4	-1.5	+0.4	+1.1	-1.5
	%Δ Swell	-0.4	-0.1	+0.1	+0.2	+0.1	-0.1	0.0	-0.3	+0.1	0.0	+0.2	-1.1
Polymethyl Methacrylate	%Δ Mass	+0.1	+0.1	+0.2	+0.2	+0.2	+0.1	+0.3	+0.2	+0.5	+0.3	+0.8	+0.5
	%Δ Hardness	+0.2	-0.8	0.0	-0.7	+0.5	-0.7	+1.0	-0.6	-0.5	0.0	-1.1	-2.5
	%Δ Swell	-1.1	-0.1	0.0	0.0	+0.1	0.0	-0.9	-0.3	+0.1	+0.1	+0.4	-0.4
Acetal	%Δ Mass	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.3	+0.4	+0.4	+0.3	+0.4	+0.4
	%Δ Hardness	-1.3	-0.6	-0.4	-0.4	+1.1	+0.6	+0.2	-0.9	-1.5	+0.2	-0.8	-2.1
	%Δ Swell	-0.1	+0.3	0.0	0.0	+0.1	0.0	-0.1	+0.5	+0.2	+0.1	+0.3	+0.1
HDPE	%Δ Mass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	%Δ Hardness	-3.9	+2.4	+1.6	-0.8	1.8	+3.4	-0.3	0.0	+1.3	-1.3	+1.8	-0.8
	%Δ Swell	-0.1	-0.1	-0.2	+0.3	+0.2	+0.1	-0.1	0.0	-0.2	+0.1	0.0	+0.5
PETG	%Δ Mass	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.2	+0.3	+0.3	+0.2	+0.3	+0.2
	%Δ Hardness	-0.4	-1.1	-0.4	-1.7	+1.5	-0.4	-1.5	-4.4	-1.5	-1.7	-0.6	-3.1
	%Δ Swell	-0.1	0.0	+0.1	-0.1	0.0	+0.1	-0.1	+0.2	+0.2	-0.2	+0.1	+0.1
Polycarbonate	%Δ Mass	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1	+0.2	+0.2	+0.1	+0.2	+0.1
	%Δ Hardness	-1.0	-0.2	+0.2	-0.6	+0.4	-0.8	-0.6	-1.0	+0.2	0.0	+0.6	-0.6
	%Δ Swell	+0.2	-0.1	+0.1	+0.1	-0.2	-0.1	+0.2	+0.1	+0.2	0.0	+0.2	0.0
Polyetherimide	%Δ Mass	+0.2	+0.2	+0.3	+0.2	+0.2	+0.2	+0.5	+0.8	+0.8	+0.4	+0.8	+0.5
	%Δ Hardness	-0.5	-0.4	+0.6	-0.4	+0.4	-0.9	-0.5	-1.5	+0.6	+0.4	-0.7	-0.9
	%Δ Swell	+0.3	+0.1	0.0	+0.2	+0.1	-0.1	+0.3	+0.7	+1.1	+0.1	+0.6	-1.5
Polypropylene	%Δ Mass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	%Δ Hardness	-0.2	+0.9	0.0	0.0	+3.7	+4.1	+0.9	-0.2	-0.9	+0.9	+0.5	+2.0
	%Δ Swell	0.0	0.0	+0.1	-0.2	-0.3	-0.6	0.0	+0.3	+0.1	-0.2	-0.1	-0.7
PPO	%Δ Mass	0.0	+0.1	+0.1	0.0	0.0	0.0	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1
	%Δ Hardness	-0.4	+0.6	-0.2	+0.6	+1.0	+0.2	+0.6	-0.4	-0.6	+0.4	+0.8	+0.4
	%Δ Swell	+0.1	+0.2	+0.1	0.0	-0.1	+0.4	-0.1	+0.2	+0.2	0.0	-0.1	0.0
PVC	%Δ Mass	0.0	0.0	0.0	0.0	0.0	0.0	+0.1	+0.1	+0.1	+0.1	+0.1	+0.1
	%Δ Hardness	+0.2	-0.4	+1.0	-0.4	+1.6	-0.8	+0.6	-1.9	+0.8	+0.6	-0.6	-0.6
	%Δ Swell	0.0	+0.1	+0.1	+0.1	+0.2	-0.4	0.0	+0.1	+0.2	+0.3	0.0	-0.4
Polytetrafluoroethylene	%Δ Mass	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	+0.1
	%Δ Hardness	-4.4	-2.9	+6.4	-1.3	+4.0	+7.9	+3.4	-1.9	+5.7	-1.0	+1.7	+1.8
	%Δ Swell	+0.1	+0.1	0.0	+0.1	+0.1	-0.5	-0.2	0.0	+0.3	0.0	-0.1	-0.4
Polyamide 6	%Δ Mass	+0.7	+0.6	+0.8	+0.5	+0.7	+0.6	+2.3	+3.1	+2.8	+1.8	+2.6	+2.2
	%Δ Hardness	-5.6	-2.6	-3.2	-1.0	-1.4	-1.7	-7.7	-12.7	-11.0	-7.7	-11.2	-11.5
	%Δ Swell	+0.6	+0.5	+0.3	+0.4	+0.4	+0.3	+1.2	+1.4	+1.5	+1.5	+1.6	+1.2

KEY

ABS - Acrylonitrile butadiene styrene
HDPE - High Density Polyethylene
PETG - Polyethylene terephthalate glycol-modified
PPO - Polyphenylene Oxide – Styrene
PVC - Polyvinyl chloride

METHOD – Modified version of ASTM D543-95, Practice A; Room Temp.
Mass: Analytical Balance, 0.0001 grams; CoV – 4.0E-6%
Hardness: Shore D Durometer, 1 – 100 HD; CoV – 0.32%
Swell: Mitutoyo Micrometer, 0.001 mm, CoV – 0.11%