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Plastic Compatibility of 2% ENZYME CLEANERS At Room Temperature

CONCLUSION: A 2% solution of each of our enzyme 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 enzyme cleaners.

PLASTIC	PROPERTY	1 Day, %Δ			10 Days, %Δ		
		ZYMIT PRO®	**ZYMIT® LOW-FOAM**	**Tap Water**	**ZYMIT PRO®**	**ZYMIT® LOW-FOAM**	**Tap Water**
ABS	%Δ Mass	+0.3	+0.3	+0.2	+0.4	+0.4	+0.4
	%Δ Hardness	**+1.3**	**-0.4**	**-0.6**	**+1.1**	**+0.6**	**-1.5**
	%Δ Swell	+0.5	-0.3	-0.1	+0.5	-0.2	-1.1
Polymethyl Methacrylate	%Δ Mass	+0.1	+0.2	+0.1	+0.2	+0.8	+0.5
	%Δ Hardness	**+0.4**	**0.0**	**-0.7**	**+0.4**	**0.0**	**-2.5**
	%Δ Swell	+0.2	0.0	0.0	+0.1	+0.2	-0.4
Acetal	%Δ Mass	+0.1	+0.1	+0.1	+0.4	+0.4	+0.4
	%Δ Hardness	**+0.2**	**-0.4**	**+0.6**	**0.0**	**-0.8**	**-2.1**
	%Δ Swell	+0.2	-0.1	0.0	+0.1	0.0	+0.1
HDPE	%Δ Mass	0.0	0.0	0.0	0.0	0.0	0.0
	%Δ Hardness	**+0.3**	**-1.1**	**+3.4**	**0.0**	**-0.8**	**-0.8**
	%Δ Swell	0.0	-0.1	+0.1	-0.1	+0.2	+0.5
PETG	%Δ Mass	+0.1	+0.1	+0.1	+0.3	+0.3	+0.2
	%Δ Hardness	**+1.3**	**+0.4**	**-0.4**	**-1.9**	**-1.7**	**-3.1**
	%Δ Swell	0.0	-0.2	+0.1	-0.1	-0.2	+0.1
Polycarbonate	%Δ Mass	+0.1	+0.1	+0.1	+0.2	+0.2	+0.1
	%Δ Hardness	**0.0**	**0.0**	**-0.8**	**-0.8**	**0.0**	**-0.6**
	%Δ Swell	+0.1	+0.1	-0.1	0.0	+0.1	0.0
Polyetherimide	%Δ Mass	+0.3	+0.2	+0.2	+0.8	+0.6	+0.5
	%Δ Hardness	**+0.4**	**-0.6**	**-0.9**	**0.0**	**-0.2**	**-0.9**
	%Δ Swell	+0.3	0.0	-0.1	+0.1	+0.1	-1.5
Polypropylene	%Δ Mass	0.0	0.0	0.0	0.0	0.0	0.0
	%Δ Hardness	**+0.9**	**0.0**	**+4.1**	**+0.7**	**+0.5**	**+2.0**
	%Δ Swell	-0.1	+0.2	-0.6	0.0	0.0	-0.7
PPO	%Δ Mass	+0.2	0.0	0.0	+0.1	+0.1	+0.1
	%Δ Hardness	**+0.6**	**-0.2**	**+0.2**	**+0.2**	**0.0**	**+0.4**
	%Δ Swell	-0.1	0.0	+0.4	-0.1	0.0	0.0
PVC	%Δ Mass	+0.1	0.0	0.0	+0.1	+0.1	+0.1
	%Δ Hardness	**+1.2**	**-0.2**	**-0.8**	**+0.4**	**-0.4**	**-0.6**
	%Δ Swell	0.0	0.0	-0.4	0.0	0.0	-0.4
Polytetra-fluoroethylene	%Δ Mass	0.0	0.0	0.0	0.0	0.0	+0.1
	%Δ Hardness	**+5.6**	**-0.4**	**+7.9**	**+1.0**	**+2.9**	**+1.8**
	%Δ Swell	0.0	-0.1	0.5	-0.2	-0.1	-0.4
Polyamide 6	%Δ Mass	+0.8	+0.7	+0.6	+2.5	+3.2	+2.2
	%Δ Hardness	**-1.6**	**-2.8**	**-1.7**	**-11.8**	**-11.9**	**-11.5**
	%Δ Swell	+0.5	+0.4	+0.3	+1.4	+1.4	+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%