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Plastic Compatibility of P-80® Temporary Assembly Lubricants

CONCLUSION: P-80 Lubricants were found to be compatible with most of the plastics tested below. Caution should be used with Polycarbonate, PPO, and acrylic when these parts are used under strain.

24-Hour Immersion, Room Temperature

		Teflon	Nylon	PVC	Polypropylene	Delrin	Polyurethane	Acrylic	HDPE	Polycarbonate	PPO	ABS	PET
P-80 Emulsion	Δ Mass	0.0%	1.0%	0.0%	0.4%	0.2%	0.8%	0.2%	0.0%	0.1%	0.1%	0.2%	0.1%
	Δ Surface Area	0.0%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	0.2%	-0.1%	0.0%
P-80 Thix	Δ Mass	0.0%	1.0%	0.0%	0.0%	0.2%	0.5%	0.2%	0.0%	0.1%	0.1%	0.2%	0.1%
	Δ Surface Area	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
P-80 Grip-It	Δ Mass	0.0%	1.0%	0.0%	0.0%	0.2%	0.5%	0.2%	0.0%	0.1%	0.1%	0.2%	0.1%
	Δ Surface Area	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
P-80 RediLube	Δ Mass	0.0%	1.0%	0.0%	0.0%	0.2%	0.5%	0.2%	0.0%	0.1%	0.0%	0.2%	0.1%
	Δ Surface Area	0.4%	0.5%	-0.1%	0.1%	-0.1%	0.2%	-0.1%	0.1%	0.0%	-0.1%	-0.2%	0.1%
TAP WATER (CONTROL SAMPLES)	Δ Mass	0.0%	0.4%	0.0%	0.0%	0.2%	0.5%	0.3%	0.0%	0.1%	0.1%	0.2%	0.1%
	Δ Surface Area	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-0.1%	-0.1%	0.0%

Test data is provided for comparison purposes only. Individuals should conduct their own tests for compatibility verification. Please contact International Products Corp. for compatibility information on any plastic not shown.

Test Method: ASTM D543-95.

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1% Strain for 24 Hours, Wet Patch Method

		Teflon	Nylon	PVC	Polypropylene	Delrin	Polyurethane	Acrylic	HDPE	Polycarbonate	PPO	ABS	PET
P-80 Emulsion	Appearance	No change	No change	No change	No change	No change	No change	Cracked	No change	Crazed	Crazed	Equal to control	No change
P-80 Thix	Appearance	No change	No change	No change	No change	No change	No change	Cracked	No change	Crazed	Cracked	Equal to control	Equal to control
P-80 Grip-It	Appearance	No change	No change	No change	No change	No change	No change	Cracked	No change	Crazed	Cracked	Equal to control	Equal to control
P-80 RediLube	Appearance	No change	No change	No change	No change	No change	No change	Crazed	No change	Crazed	No change	Equal to control	Equal to control
DRY (Control Samples)	Appearance	No change	No change	No change	No change	No change	No change	No change	No change	No change	No change	Some crazing	Some crazing

Test data is provided for comparison purposes only. Individuals should conduct their own tests for compatibility verification. Please contact International Products Corp. for compatibility information on any plastic not shown.

TEST METHOD: ASTM D543-95

Plastic Coupons

Teflon (McMaster-Carr); White Nylon 6/6 (meets ASTM D-4066 & FDA 21 CFR 177.1500, McMaster-Carr); PVC- Polyvinyl Chloride (Metaspec); Polypropylene (Metaspec); Polyurethane (Metaspec); Acrylic - Lucite (Dupont); HDPE - High Density Polyethylene (Gulf Oil Chemical); Polycarbonate (Sheffield Plastics); PPO, Modified - Polyphenylene Ether (Noryl), MIL-P-46129 (Black), (Borg Warner); ABS - Acrylonitrile-Butadiene-Styrene (Allied Resinous Products); PET, FDA-quality polyester