

Lubricant compatibility with plastics and elastomers



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Conclusion

- While there are no standard specifications for excessive swell and hardness data, minimal changes are regarded as between -5 to +20% for swelling, and -5 to +10 points for hardness¹. Based on these criteria, IPC's lubricants have acceptable swell and hardness compatibility results after 14 days. Mass compatibility results are favorable compared to the tap water control samples.
- Percent changes in mass represent how much lubricant was absorbed into the material or how much of the material was dissolved into the lubricant.
- Percent changes in hardness represent whether the material was made harder or softer by the lubricant.
- Percent changes in width represent swelling or shrinking; the change in size of the material.

Customers are encouraged to conduct their own tests before using any of IPC's lubricants.

¹ Vecchio, R. D. (2001). Physical Testing. In K. & Baranwal, *Basic Elastomer Technology* (pp. 218-219). Baltimore: Rubber Division, American Chemical Society.

Introduction

- The testing in this document follows a modified version of ASTM 471. Customers are encouraged to conduct their own tests before using any of IPC's lubricants.
- The initial measurement was that of the dry coupon, before exposure to the lubricant. Mass, width, and hardness were each measured after 1 day, 2 days, 7 days, 10 days, and 14 days of exposure. The lengths of time the materials were exposed to lubricants in this test were excessive – it is unlikely that a cleaning procedure would be so harsh.
- Mass was measured using an analytical balance.
- Width was measured using a Mitutoyo micrometer.
 - The instrumental error for the micrometer is +/- (L/75) μ m, excluding the quantizing error
 - The quantizing error is +/- 1 count
- Hardness was measured using Shore A and Shore D durometers.
 - The accuracy for the Shore D durometer is +/- 1%
 - Shore durometers used to measure hardness for each material:

ABS	D
Acrylic	D
Buna-N Rubber	A
Butyl Rubber	A
Delrin	D
ECH Rubber	A
EPDM Rubber	A
HDPE	D
Natural Gum Rubber	A
Neoprene Rubber	A
PETG	D
Polycarbonate	D
Polyetherimide	D
Polypropylene	D
Polyurethane	A
PPO	D
PVC	D
SBR Rubber	A
Silicone Rubber	A
Teflon	D
Viton Rubber	A
White Nylon	D

Summary of Compatibility

Material	Water	P-80® Emulsion	P-80® Grip-It	P-80® RediLube	P-80® THIX	P-80® Emulsion IFC	P-80® THIX IFC	Rubber Slide®
ABS	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
Acrylic	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
Buna-N	15+ days	15+ days	15+ days	7 days	15+ days	7 days	15+ days	15+ days
Butyl rubber	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
Delrin	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
ECH rubber	2 days	7 days	1 day	15+ days	7 days	2 days	1 day	15+ days
EPDM	15+ days	7 days	1 day	15+ days	7 days	15+ days	15+ days	15+ days
HDPE	15+ days	14 days	15+ days	15+ days	14 days	15+ days	15+ days	7 days
Natural gum rubber	15+ days	15+ days	1 day	10 days	7 days	15+ days	15+ days	15+ days
Neoprene rubber	10 days	7 days	2 days	7 days	10 days	7 days	7 days	15+ days
PETG	15+ days	14 days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
Polycarbonate	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
Polyetherimide	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
Polypropylene	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
Polyurethane	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
PPO	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
PVC	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days
SBR rubber	15+ days	7 days	7 days	7 days	15+ days	7 days	15+ days	15+ days
Silicone rubber	15+ days	15+ days	2 days	1 day	15+ days	15+ days	15+ days	15+ days
Teflon	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	15+ days	1 day
Viton rubber	15+ days	15+ days	15+ days	10 days	15+ days	15+ days	15+ days	15+ days
White nylon	7 days	7 days	7 days	2 days	7 days	7 days	7 days	7 days

- The day written in the chart is the day that the testing produced a failure. The material is considered as passing if the change is only between -5 to +20% for swelling and -5 to +10 points for hardness. Any percent changes that fall outside of either the swelling or hardness ranges, or both, is considered a failure.
- Passing is listed in the chart as 15+ days in blue.

ABS

Acrylonitrile butadiene styrene

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	3.2458	3.251	0.16	3.2505	0.14	3.2557	0.31	3.2552	0.29	3.2581	0.38
P-80® Emulsion	3.3019	3.3071	0.16	3.3087	0.21	3.3147	0.39	3.3116	0.29	3.3161	0.43
P-80® Grip-It	3.3505	3.3587	0.24	3.3629	0.37	3.3645	0.42	3.3662	0.47	3.3505	0.00
P-80® RediLube	3.2058	3.2137	0.25	3.2163	0.33	3.221	0.47	3.2081	0.07		
P-80® THIX	3.2964	3.304	0.23	3.3029	0.20	3.3118	0.47	3.3081	0.35	3.3077	0.34
P-80® Emulsion IFC	3.2069	3.2132	0.20	3.2141	0.22	3.2222	0.48	3.2229	0.50	3.2148	0.25
P-80® THIX IFC	3.1723	3.1795	0.23	3.1812	0.28	3.1873	0.47	3.186	0.43	3.1790	0.21
Rubber Slide®	3.2182	3.2251	0.21	3.2273	0.28	3.2332	0.47	3.2349	0.52	3.2338	0.48

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	80.5	80	-0.62	77.83	-3.32	80.33	-0.21	79.33	-1.45	78.5	-2.48
P-80® Emulsion	81	79	-2.47	80.16	-1.04	80.5	-0.62	80	-1.23	79.83	-1.44
P-80® Grip-It	80.5	80.16	-0.42	79.66	-1.04	78.83	-2.07	81	0.62	82	1.86
P-80® RediLube	81	78.33	-3.30	80.5	-0.62	78.5	-3.09	79.83	-1.44		
P-80® THIX	81.00	79.83	-1.44	80.33	-0.82	78	-3.70	78.00	-3.70	78.17	-3.50
P-80® Emulsion IFC	78.00	79.50	1.92	78.50	0.64	79.17	1.50	79.50	1.92	79.17	1.50
P-80® THIX IFC	79.16	78.00	-1.47	79.50	0.43	79.33	0.22	79.50	0.43	80.17	1.27
Rubber Slide®	79.5	80.5	1.26	77.83	-2.10	79.16	-0.43	78.66	-1.06	80.33	1.04

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	1.622	1.621	-0.06	1.62	-0.12	1.63	0.49	1.605	-1.05	1.606	-0.99
P-80® Emulsion	1.61	1.616	0.37	1.616	0.37	1.612	0.12	1.612	0.12	1.613	0.19
P-80® Grip-It	1.607	1.609	0.12	1.611	0.25	1.607	0.00	1.607	0.00	1.609	0.12
P-80® RediLube	1.601	1.603	0.12	1.603	0.12	1.604	0.19	1.598	-0.21		
P-80® THIX	1.586	1.595	0.546	1.595	0.588	1.60	0.652	1.597	0.715	1.594	0.504
P-80® Emulsion IFC	1.585	1.586	0.04	1.580	-0.32	1.579	-0.42	1.579	-0.40	1.58	-0.53
P-80® THIX IFC	1.579	1.580	0.04	1.573	-0.40	1.584	0.30	1.573	-0.36	1.579	0.02
Rubber Slide®	1.615	1.615	0.00	1.619	0.25	1.639	1.49	1.616	0.06	1.617	0.12

Acrylic Poly(methyl methacrylate)

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	6.3507	6.3596	0.14	6.3621	0.18	6.3798	0.46	6.3852	0.54	6.3959	0.71
P-80® Emulsion	6.6235	6.6316	0.12	6.6366	0.20	6.6552	0.48	6.6565	0.50	6.6695	0.69
P-80® Grip-It	6.4345	6.4463	0.18	6.4544	0.31	6.4694	0.54	6.4768	0.66	6.4636	0.45
P-80® RediLube	6.203	6.2169	0.22	6.2229	0.32	6.2445	0.67	6.2438	0.66		
P-80® THIX	6.3552	6.3666	0.18	6.3687	0.21	6.3953	0.63	6.3974	0.66	6.4057	0.79
P-80® Emulsion IFC	6.293	6.3022	0.15	6.3058	0.20	6.3271	0.54	6.332	0.62	6.3307	0.60
P-80® THIX IFC	6.2546	6.2645	0.16	6.2697	0.24	6.29	0.57	6.2917	0.59	6.2950	0.65
Rubber Slide®	6.2674	6.2783	0.17	6.2819	0.23	6.3011	0.54	6.3088	0.66	6.3146	0.75

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	94.66	94	-0.70	93.16	-1.58	93.83	-0.88	92.33	-2.46	92.83	-1.93
P-80® Emulsion	94.16	93.16	-1.06	93.16	-1.06	93	-1.23	92.5	-1.76	92.83	-1.41
P-80® Grip-It	93.5	92.5	-1.07	92.5	-1.07	92.5	-1.07	93	-0.53	93	-0.53
P-80® RediLube	93.5	92.16	-1.43	93.5	0.00	93	-0.53	93.00	-0.53		
P-80® THIX	92.83	93.50	0.72	93.50	0.72	92.67	-0.18	92.83	0.00	92.50	-0.36
P-80® Emulsion IFC	91.83	91.67	-0.18	91.67	-0.18	91.83	0.00	91.67	-0.18	91.33	-0.54
P-80® THIX IFC	91.83	91.83	0.00	92.00	0.18	91.67	-0.18	91.67	-0.18	91.17	-0.73
Rubber Slide®	94.5	94.5	0.00	94	-0.53	92.5	-2.12	93.5	-1.06	94	-0.53

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	2.819	2.819	0.00	2.805	-0.50	2.806	-0.46	2.808	-0.39	2.816	-0.11
P-80® Emulsion	2.847	2.848	0.04	2.845	-0.07	2.846	-0.04	2.854	0.25	2.855	0.28
P-80® Grip-It	2.757	2.758	0.04	2.759	0.07	2.756	-0.04	2.763	0.22	2.767	0.36
P-80® RediLube	2.677	2.68	0.11	2.679	0.07	2.679	0.07	2.681	0.15		
P-80® THIX	2.777	2.786	0.317	2.777	-0.019	2.778	0.041	2.780	0.101	2.779	0.053
P-80® Emulsion IFC	2.788	2.779	-0.31	2.779	-0.30	2.780	-0.29	2.791	0.11	2.792	0.14
P-80® THIX IFC	2.768	2.774	0.19	2.774	0.22	2.769	0.01	2.775	0.23	2.770	0.06
Rubber Slide®	2.683	2.682	-0.04	2.69	0.26	2.686	0.11	2.684	0.04	2.692	0.34

Buna-N

Nitrile butadiene rubber (NBR); nitrile rubber

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Rubber Slide®	16.2861	16.3601	0.45	16.3998	0.70	16.4818	1.20	16.5053	1.35	16.5249	1.47
P-80® Emulsion	14.4401	14.4699	0.21	14.4961	0.39	14.5509	0.77	14.5673	0.88	14.5784	0.96
P-80® Grip-It	16.5058	16.5418	0.22	16.5663	0.37	16.61	0.63	16.6227	0.71	16.5717	0.40
P-80® RediLube	17.2511	17.4112	0.93	17.5014	1.45	17.7548	2.92	17.8584	3.52		
P-80® THIX	15.8057	15.8332	0.17	15.8436	0.24	15.9337	0.81	15.9397	0.85	15.9753	1.07
P-80® Emulsion IFC	13.7573	13.8552	0.71	13.9016	1.05	14.0926	2.44	14.1289	2.70	14.1540	2.88
P-80® THIX IFC	16.4269	16.4802	0.32	16.5093	0.50	16.6096	1.11	16.6196	1.17	16.6121	1.13
Water	16.0994	16.1087	0.06	16.1188	0.12	16.1271	0.17	16.1252	0.16	16.1046	0.03

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	49.83	51	2.35	53	6.36	50.5	1.34	50.66	1.67	52.5	5.36
P-80® Emulsion	49	50.83	3.73	49.66	1.35	47.16	-3.76	49.66	1.35	49.5	1.02
P-80® Grip-It	50	49	-2.00	47.66	-4.68	48.33	-3.34	49	-2.00	48.83	-2.34
P-80® RediLube	53	52	-1.89	50.66	-4.42	50	-5.66	50.00	-5.66		
P-80® THIX	54.83	55.00	0.30	54.78	-0.10	53.50	-2.43	54.83	0.00	53.33	-2.74
P-80® Emulsion IFC	56.17	54.83	-2.37	54.17	-3.56	53.00	-5.64	54.00	-3.86	53.00	-5.64
P-80® THIX IFC	57.33	57.17	-0.29	56.50	-1.45	55.00	-4.07	54.83	-4.36	54.83	-4.36
Rubber Slide®	48.5	49.33	1.71	52.83	8.93	47.83	-1.38	48.83	0.68	47.83	-1.38

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	6.492	6.495	0.05	6.45	-0.65	6.437	-0.85	6.438	-0.83	6.391	-1.56
P-80® Emulsion	6.636	6.636	0.00	6.612	-0.36	6.618	-0.27	6.623	-0.20	6.572	-0.96
P-80® Grip-It	6.569	6.625	0.85	6.569	0.00	6.569	0.00	6.576	0.11	6.576	0.11
P-80® RediLube	6.573	6.58	0.11	6.59	0.26	6.704	1.99	6.720	2.24		
P-80® THIX	6.586	6.565	-0.324	6.544	-0.638	6.550	-0.542	6.577	-0.137	6.569	-0.253
P-80® Emulsion IFC	6.578	6.601	0.35	6.584	0.09	6.647	1.04	6.663	1.29	6.682	1.58
P-80® THIX IFC	6.343	6.352	0.15	6.336	-0.11	6.327	-0.25	6.334	-0.14	6.382	0.62
Rubber Slide®	6.374	6.364	-0.16	6.343	-0.49	6.384	0.16	6.383	0.14	6.358	-0.25

Butyl rubber
Isobutylene isoprene rubber (IIR)

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	13.803	13.8062	0.02	13.8093	0.05	13.8156	0.09	13.8172	0.10	13.8169	0.10
P-80® Emulsion	15.6183	15.6313	0.08	15.6428	0.16	15.9718	2.26	15.6813	0.40	15.6953	0.49
P-80® Grip-It	15.1238	15.1281	0.03	15.1328	0.06	15.145	0.14	15.1496	0.17	15.1481	0.16
P-80® RediLube	14.0451	14.1119	0.48	14.1509	0.75	14.2654	1.57	14.3353	2.07		
P-80® THIX	14.8709	14.8881	0.12	14.8948	0.16	14.9359	0.44	14.9454	0.50	14.9655	0.64
P-80® Emulsion IFC	15.2615	15.2978	0.24	15.3164	0.36	15.3921	0.86	15.411	0.98	15.4415	1.18
P-80® THIX IFC	15.9101	15.9187	0.05	15.9243	0.09	15.9526	0.27	15.9575	0.30	15.9641	0.34
Rubber Slide®	14.4857	14.4918	0.04	14.4972	0.08	14.5057	0.14	14.5096	0.16	14.5101	0.17

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	59.33	59	-0.56	59.33	0.00	58.5	-1.40	59.16	-0.29	58.83	-0.84
P-80® Emulsion	58.66	59.33	1.14	59.33	1.14	58.3	-0.61	59.33	1.14	56.5	-3.68
P-80® Grip-It	60.25	56	-7.05	57.16	-5.13	58.66	-2.64	59.5	-1.24	58.83	-2.36
P-80® RediLube	65	63	-3.08	63.33	-2.57	63.5	-2.31	63.33	-2.56		
P-80® THIX	66.00	65.33	-1.01	65.78	-0.33	65.67	-0.51	65.33	-1.01	64.28	-2.60
P-80® Emulsion IFC	66.00	66.83	1.26	66.83	1.26	66.67	1.01	63.83	-3.28	64.17	-2.78
P-80® THIX IFC	66.83	66.33	-0.75	65.17	-2.49	63.67	-4.74	65.17	-2.49	63.83	-4.49
Rubber Slide®	59.5	61.5	3.36	59.83	0.55	58.33	-1.97	60	0.84	58.5	-1.68

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	6.089	6.098	0.15	6.066	-0.38	6.081	-0.13	6.079	-0.16	6.069	-0.33
P-80® Emulsion	6.1	6.105	0.08	6.055	-0.74	6.069	-0.51	6.068	-0.52	6.089	-0.18
P-80® Grip-It	6.058	6.051	-0.12	6.099	0.68	6.018	-0.66	5.994	-1.06	6.035	-0.38
P-80® RediLube	6.054	6.07	0.26	6.092	0.63	6.15	1.59	6.186	2.17		
P-80® THIX	6.028	6.055	0.451	6.070	0.711	6.081	0.893	6.071	0.722	6.106	1.30
P-80® Emulsion IFC	6.114	6.096	-0.30	6.110	-0.07	6.157	0.70	6.126	0.19	6.160	0.75
P-80® THIX IFC	5.993	5.996	0.05	5.978	-0.26	6.001	0.13	5.976	-0.29	6.021	0.47
Rubber Slide®	5.975	5.936	-0.65	5.937	-0.64	5.932	-0.72	5.928	-0.79	6.347	6.23

Delrin

Polyoxymethylene (POM)

acetal, polyacetal, polyformaldehyde

Ultraform, Celcon, Ramtal, Duracon, Kepital, Polypenco, Hostaform

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	9.2652	9.2715	0.07	9.2734	0.09	9.2872	0.24	9.8904	6.75	9.2972	0.35
P-80® Emulsion	8.9839	8.9898	0.07	8.9934	0.11	9.0076	0.26	9.0077	0.26	9.0162	0.36
P-80® Grip-It	9.2729	9.2817	0.09	9.2877	0.16	9.3001	0.29	9.3028	0.32	9.2927	0.21
P-80® RediLube	9.1841	9.1935	0.10	9.199	0.16	9.2146	0.33	9.2102	0.28		
P-80® THIX	9.2276	9.2366	0.10	9.2386	0.12	9.2592	0.34	9.2595	0.35	9.2635	0.39
P-80® Emulsion IFC	9.0876	9.097	0.10	9.101	0.15	9.1151	0.30	9.1179	0.33	9.1137	0.29
P-80® THIX IFC	9.0121	9.0221	0.11	9.0268	0.16	9.045	0.37	9.0463	0.38	9.0463	0.38
Rubber Slide®	8.9597	8.9682	0.09	8.9724	0.14	8.9876	0.31	8.9936	0.38	8.9973	0.42

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	89.5	90	0.56	89.66	0.18	89.5	0.00	87.66	-2.06	88.33	-1.31
P-80® Emulsion	89.5	89.5	0.00	89	-0.56	89	-0.56	88.66	-0.94	88	-1.68
P-80® Grip-It	89.5	88.33	-1.31	88.5	-1.12	87.83	-1.87	88.5	-1.12	88	-1.68
P-80® RediLube	88.66	88.5	-0.18	88.5	-0.18	88	-0.74	88.50	-0.18		
P-80® THIX	88.00	88.00	0.00	88.67	0.76	87.00	-1.14	87.67	-0.38	88.17	0.19
P-80® Emulsion IFC	88.00	87.50	-0.57	88.33	0.38	88.00	0.00	87.83	-0.19	87.50	-0.57
P-80® THIX IFC	88.00	88.00	0.00	88.50	0.57	88.00	0.00	87.67	-0.38	87.67	-0.38
Rubber Slide®	90	89.16	-0.93	89.33	-0.74	87.83	-2.41	88	-2.22	88.5	-1.67

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	3.27	3.271	0.03	3.271	0.03	3.273	0.09	3.273	0.09	3.273	0.09
P-80® Emulsion	3.26	3.266	0.18	3.261	0.03	3.266	0.18	3.275	0.46	3.268	0.25
P-80® Grip-It	3.264	3.263	-0.03	3.264	0.00	3.275	0.34	3.272	0.25	3.27	0.18
P-80® RediLube	3.259	3.261	0.06	3.262	0.09	3.262	0.09	3.261	0.07		
P-80® THIX	3.256	3.257	0.031	3.260	0.113	3.262	0.184	3.263	0.215	3.259	0.082
P-80® Emulsion IFC	3.211	3.208	-0.09	3.211	0.02	3.208	-0.08	3.209	-0.04	3.213	0.06
P-80® THIX IFC	3.228	3.228	-0.01	3.228	-0.01	3.231	0.08	3.226	-0.06	3.235	0.20
Rubber Slide®	3.275	3.274	-0.03	3.276	0.03	3.281	0.18	3.281	0.18	3.279	0.12

ECH rubber Epichlorohydrin

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	13.7208	13.7758	0.40	13.768	0.34	13.9154	1.42	13.914	1.41	13.9833	1.91
P-80® Emulsion	13.0244	13.0774	0.41	13.1031	0.60	13.24	1.66	13.1672	1.10	13.2701	1.89
P-80® Grip-It	13.0265	13.1169	0.69	13.2174	1.47	13.277	1.92	13.3105	2.18	13.062	0.27
P-80® RediLube	13.6088	13.7518	1.05	13.819	1.54	14.1354	3.87	13.9127	2.23		
P-80® THIX	12.9157	12.9986	0.64	12.9716	0.43	13.1649	1.93	13.0745	1.23	13.0785	1.26
P-80® Emulsion IFC	12.2853	12.5115	1.84	12.562	2.25	12.8909	4.93	12.9655	5.54	12.8453	4.56
P-80® THIX IFC	12.7937	12.9845	1.49	13.0333	1.87	13.3033	3.98	13.2873	3.86	13.1986	3.16
RubberSlide®	13.0967	13.3088	1.62	13.4323	2.56	13.7171	4.74	13.8023	5.39	13.8254	5.56

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	52.83	57.5	8.84	58.33	10.41	57.83	9.46	58.83	11.36	57.66	9.14
P-80® Emulsion	59.5	58.83	-1.13	58.83	-1.13	55.66	-6.45	55	-7.56	55.5	-6.72
P-80® Grip-It	60.83	56.83	-6.58	56.5	-7.12	57.33	-5.75	58.33	-4.11	59.5	-2.19
P-80® RediLube	62	62.5	0.81	61	-1.61	63.5	2.42	61.00	-1.61		
P-80® THIX	66.17	65.83	-0.50	63.50	-4.03	60.83	-8.06	61.83	-6.55	61.83	-6.55
P-80® Emulsion IFC	65.17	62.67	-3.84	61.67	-5.37	60.00	-7.93	59.83	-8.18	58.67	-9.97
P-80® THIX IFC	68.50	64.00	-6.57	64.00	-6.57	62.33	-9.00	62.17	-9.25	62.17	-9.25
RubberSlide®	56.5	56.83	0.58	55.33	-2.07	54.66	-3.26	54	-4.42	54.66	-3.26

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	4.641	4.656	0.32	4.649	0.17	4.691	1.08	4.676	0.75	4.695	1.16
P-80® Emulsion	4.68	4.658	-0.47	4.657	-0.49	4.686	0.13	4.671	-0.19	4.697	0.36
P-80® Grip-It	4.635	4.632	-0.06	4.649	0.30	4.642	0.15	4.664	0.63	4.63	-0.11
P-80® RediLube	4.6	4.605	0.11	4.611	0.24	4.655	1.20	4.619	0.42		
P-80® THIX	4.598	4.584	-0.29	4.557	-0.89	4.589	-0.18	4.591	-0.15	4.541	-1.23
P-80® Emulsion IFC	4.590	4.599	0.21	4.612	0.48	4.661	1.55	4.656	1.45	4.622	0.70
P-80® THIX IFC	4.646	4.648	0.04	4.629	-0.36	4.674	0.60	4.645	-0.01	4.640	-0.13
RubberSlide®	4.592	4.631	0.85	4.631	0.85	4.705	2.46	4.692	2.18	4.708	2.53

EPDM rubber

Ethylene propylene diene monomer

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	15.7535	15.7545	0.01	15.7538	0.00	15.7618	0.05	15.7624	0.06	15.7673	0.09
P-80® Emulsion	15.0541	15.0654	0.08	15.0749	0.14	15.1106	0.38	15.1116	0.38	15.1358	0.54
P-80® Grip-It	15.4984	15.5037	0.03	15.5112	0.08	15.5213	0.15	15.526	0.18	15.5194	0.14
P-80® RediLube	15.3626	15.4692	0.69	15.5257	1.06	15.6738	2.03	15.7557	2.56		
P-80® THIX	16.7292	16.7502	0.13	16.7598	0.18	16.8161	0.52	16.8272	0.59	16.855	0.75
P-80® Emulsion IFC	16.1439	16.1929	0.30	16.2166	0.45	16.3087	1.02	16.3282	1.14	16.3527	1.29
P-80® THIX IFC	16.0522	16.0649	0.08	16.0693	0.11	16.0991	0.29	16.0947	0.26	16.0925	0.25
RubberSlide®	15.9349	15.9411	0.04	15.9439	0.06	15.9602	0.16	15.9695	0.22	15.9708	0.23

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	63.83	62.33	-2.35	60.5	-5.22	62.5	-2.08	60	-6.00	60.5	-5.22
P-80® Emulsion	62.33	60.5	-2.94	61.83	-0.80	59.16	-5.09	58.83	-5.62	59.83	-4.01
P-80® Grip-It	64	60.33	-5.73	58.83	-8.08	58.5	-8.59	60	-6.25	59.5	-7.03
P-80® RediLube	66.16	65.33	-1.25	64.5	-2.51	64	-3.26	65.00	-1.75		
P-80® THIX	70.00	67.67	-3.33	67.50	-3.57	65.00	-7.14	64.67	-7.62	64.67	-7.62
P-80® Emulsion IFC	67.00	66.50	-0.75	67.17	0.25	65.33	-2.49	67.67	1.00	64.33	-3.98
P-80® THIX IFC	68.67	67.67	-1.46	67.17	-2.18	66.17	-3.64	66.50	-3.16	66.50	-3.16
RubberSlide®	60	60.33	0.55	60	0.00	60.66	1.10	62	3.33	57.66	-3.90

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	6.189	6.14	-0.79	6.128	-0.99	6.12	-1.11	6.138	-0.82	6.133	-0.90
P-80® Emulsion	6.138	6.148	0.16	6.138	0.00	6.148	0.16	6.15	0.20	6.159	0.34
P-80® Grip-It	6.036	6.061	0.41	6.069	0.55	6.036	0.00	6.086	0.83	6.082	0.76
P-80® RediLube	6.063	6.074	0.18	6.113	0.82	6.13	1.11	6.117	0.88		
P-80® THIX	6.106	6.087	-0.30	6.089	-0.28	6.093	-0.21	6.099	-0.11	6.067	-0.64
P-80® Emulsion IFC	6.029	6.013	-0.27	6.032	0.05	6.060	0.52	6.077	0.79	6.094	1.08
P-80® THIX IFC	6.043	6.048	0.08	6.050	0.10	6.035	-0.14	6.051	0.13	6.059	0.26
RubberSlide®	6.155	6.151	-0.06	6.131	-0.39	6.154	-0.02	6.121	-0.55	6.138	-0.28

HDPE

High-density polyethylene

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
		g	g	%	g	%	g	%	g	%	g
Water	6.3501	6.3501	0.00	6.35	0.00	6.3501	0.00	6.3503	0.01	6.3506	0.01
P-80® Emulsion	6.0668	6.0671	0.00	6.0673	0.01	6.0677	0.01	6.0681	0.02	6.0684	0.03
P-80® Grip-It	5.9071	5.9077	0.01	5.908	0.02	5.9086	0.03	5.9087	0.03	5.9083	0.02
P-80® RediLube	6.0003	6.0009	0.01	6.0013	0.02	6.0023	0.03	6.0028	0.04		
P-80® THIX	5.9628	5.9634	0.01	5.9634	0.01	5.9644	0.03	5.9643	0.03	5.9648	0.03
P-80® Emulsion IFC	6.1364	6.1384	0.03	6.1373	0.01	6.1381	0.03	6.1387	0.04	6.1390	0.04
P-80® THIX IFC	6.1276	6.128	0.01	6.1279	0.00	6.1288	0.02	6.1293	0.03	6.1286	0.02
RubberSlide®	5.9696	5.9696	0.00	5.9695	0.00	5.968	-0.03	5.9685	-0.02	5.9687	-0.02

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	64	66.16	3.37	65.16	1.81	66	3.13	63.5	-0.78	64.83	1.30
P-80® Emulsion	65	63.16	-2.83	63.66	-2.06	67	3.08	63.66	-2.06	61.66	-5.14
P-80® Grip-It	62.5	63.16	1.06	62.66	0.26	62.5	0.00	64.16	2.66	62	-0.80
P-80® RediLube	63.83	62.5	-2.08	64	0.27	63	-1.30	62.33	-2.34		
P-80® THIX	65.33	63.83	-2.30	64.00	-2.04	63.33	-3.06	62.17	-4.85	61.83	-5.36
P-80® Emulsion IFC	62.00	63.50	2.42	64.17	3.49	63.67	2.69	64.33	3.76	65.33	5.38
P-80® THIX IFC	65.33	65.33	0.00	65.17	-0.26	63.33	-3.06	65.00	-0.51	62.83	-3.83
RubberSlide®	65	63.5	-2.31	65.16	0.25	60.33	-7.18	65	0.00	63	-3.08

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
		mm	mm	%	mm	%	mm	%	mm	%	mm
Water	3.278	3.281	0.09	3.276	-0.06	3.277	-0.03	3.295	0.52	3.29	0.37
P-80® Emulsion	3.211	3.209	-0.06	3.205	-0.19	3.19	-0.65	3.205	-0.19	3.192	-0.59
P-80® Grip-It	3.186	3.183	-0.09	3.187	0.03	3.192	0.19	3.179	-0.22	3.189	0.09
P-80® RediLube	3.197	3.185	-0.38	3.183	-0.44	3.178	-0.59	3.179	-0.55		
P-80® THIX	3.182	3.192	0.34	3.184	0.07	3.187	0.18	3.186	0.13	3.185	0.09
P-80® Emulsion IFC	3.118	3.115	-0.11	3.123	0.15	3.126	0.26	3.117	-0.04	3.125	0.20
P-80® THIX IFC	3.151	3.150	-0.04	3.154	0.10	3.153	0.05	3.155	0.13	3.153	0.06
RubberSlide®	3.182	3.183	0.03	3.182	0.00	3.184	0.06	3.181	-0.03	3.182	0.00

Natural gum rubber

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	13.8715	13.878	0.05	13.879	0.05	13.8979	0.19	13.9033	0.23	13.9168	0.33
P-80® Emulsion	14.9801	15	0.13	15.0145	0.23	15.0888	0.73	15.1008	0.81	15.1656	1.24
P-80® Grip-It	14.6893	14.733	0.30	14.77105	0.56	14.826	0.93	14.8405	1.03	14.8267	0.94
P-80® RediLube	14.4553	14.5861	0.90	14.6788	1.55	14.9555	3.46	15.0851	4.36		
P-80® THIX	14.7793	14.8113	0.22	14.8281	0.33	14.9392	1.08	14.9632	1.24	15.0167	1.61
P-80® Emulsion IFC	14.64	14.7068	0.46	14.7411	0.69	14.9224	1.93	14.9719	2.27	15.0294	2.66
P-80® THIX IFC	14.5044	14.5314	0.19	14.5467	0.29	14.6037	0.68	14.6139	0.75	14.6143	0.76
Rubber Slide®	16.0025	16.0258	0.15	16.0404	0.24	16.0868	0.53	16.1064	0.65	16.1247	0.76

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	41	42.33	3.24	40.66	-0.83	42	2.44	39.5	-3.66	40.33	-1.63
P-80® Emulsion	41.5	39.66	-4.43	42.16	1.59	40.83	-1.61	40.5	-2.41	40.16	-3.23
P-80® Grip-It	41.66	39.5	-5.18	40.16	-3.60	38.83	-6.79	40.16	-3.60	38.66	-7.20
P-80® RediLube	46.83	46	-1.77	46	-1.77	45	-3.91	43.00	-8.18		
P-80® THIX	49.67	48.50	-2.35	47.50	-4.36	44.83	-9.73	45.83	-7.72	46.33	-6.71
P-80® Emulsion IFC	46.33	46.67	0.72	48.00	3.60	47.00	1.44	47.00	1.44	47.33	2.16
P-80® THIX IFC	47.50	47.50	0.00	46.83	-1.40	45.50	-4.21	45.83	-3.51	45.33	-4.56
Rubber Slide®	40.16	41.3	2.84	39.16	-2.49	40.33	0.42	42	4.58	38.83	-3.31

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	6.181	6.181	0.00	6.162	-0.31	6.163	-0.29	6.189	0.13	6.154	-0.44
P-80® Emulsion	6.174	6.166	-0.13	6.163	-0.18	6.187	0.21	6.165	-0.15	6.18	0.10
P-80® Grip-It	5.93	5.959	0.49	5.952	0.37	5.971	0.69	5.972	0.71	6.029	1.67
P-80® RediLube	6.028	6.071	0.71	6.098	1.16	6.105	1.28	6.128	1.66		
P-80® THIX	6.045	6.004	-0.68	6.005	-0.66	6.013	-0.53	6.006	-0.64	6.016	-0.48
P-80® Emulsion IFC	6.087	6.064	-0.38	6.022	-1.07	6.082	-0.08	6.134	0.77	6.152	1.06
P-80® THIX IFC	6.040	5.988	-0.87	6.018	-0.37	6.045	0.08	6.007	-0.56	6.038	-0.04
Rubber Slide®	6.21	6.202	-0.13	6.24	0.48	6.239	0.47	6.226	0.26	6.24	0.48

Neoprene rubber
Polychloroprene, pc-rubber

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	12.0104	12.0215	0.09	12.0199	0.08	12.0658	0.46	12.0681	0.48	12.1024	0.77
P-80® Emulsion	12.7936	12.8231	0.23	12.8437	0.39	12.9666	1.35	12.9486	1.21	13.0428	1.95
P-80® Grip-It	12.8132	12.865	0.40	12.9126	0.78	12.9758	1.27	13.0061	1.51	12.9281	0.90
P-80® RediLube	13.1735	13.3146	1.07	13.3994	1.71	13.6756	3.81	13.7422	4.32		
P-80® THIX	12.0885	12.1241	0.29	12.1294	0.34	12.2634	1.45	12.2589	1.41	12.3139	1.86
P-80® Emulsion IFC	13.6526	13.7744	0.89	13.8084	1.14	14.072	3.07	14.1302	3.50	14.1469	3.62
P-80® THIX IFC	11.6112	11.6731	0.53	11.6941	0.71	11.8285	1.87	11.8359	1.94	11.8175	1.78
RubberSlide®	11.8617	11.9228	0.52	11.9545	0.78	12.0946	1.96	12.1591	2.51	12.1876	2.75

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	64.33	62.66	-2.60	61.66	-4.15	63.83	-0.78	59.33	-7.77	60.83	-5.44
P-80® Emulsion	63.33	61.16	-3.43	61.83	-2.37	59.66	-5.80	58.33	-7.90	58.66	-7.37
P-80® Grip-It	64.5	61.83	-4.14	59.16	-8.28	58.16	-9.83	59.5	-7.75	59.83	-7.24
P-80® RediLube	67	64.66	-3.49	63.8	-4.78	60	-10.45	60.50	-9.70		
P-80® THIX	69.17	69.67	0.72	67.33	-2.65	66.00	-4.58	63.33	-8.43	65.50	-5.30
P-80® Emulsion IFC	68.67	66.50	-3.16	66.33	-3.40	63.33	-7.77	64.33	-6.31	61.83	-9.95
P-80® THIX IFC	72.17	71.00	-1.62	69.83	-3.23	66.50	-7.85	68.17	-5.54	65.83	-8.78
RubberSlide®	62.3	65	4.33	63.66	2.18	61.33	-1.56	60.83	-2.36	59.66	-4.24

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	4.765	4.769	0.08	4.742	-0.48	4.767	0.04	4.762	-0.06	4.766	0.02
P-80® Emulsion	4.785	4.782	-0.06	4.779	-0.13	4.828	0.90	4.821	0.75	4.85	1.36
P-80® Grip-It	4.729	4.768	0.82	4.768	0.82	4.773	0.93	4.781	1.10	4.745	0.34
P-80® RediLube	4.755	4.757	0.04	4.802	0.99	4.886	2.75	4.888	2.79		
P-80® THIX	4.721	4.734	0.27	4.732	0.233	4.74	0.346	4.748	0.56	4.750	0.61
P-80® Emulsion IFC	4.751	4.772	0.45	4.770	0.41	4.833	1.73	4.852	2.13	4.856	2.21
P-80® THIX IFC	4.704	4.709	0.11	4.720	0.34	4.741	0.79	4.737	0.71	4.742	0.81
RubberSlide®	4.715	4.73	0.32	4.72	0.11	4.762	1.00	4.776	1.29	4.788	1.55

PETG

Glycol Modified Polyethylene Terephthalate (PET)

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	5.3822	5.3858	0.07	5.3864	0.08	5.3926	0.19	5.3939	0.22	5.3956	0.25
P-80® Emulsion	5.5708	5.5746	0.07	5.577	0.11	5.5833	0.22	5.5831	0.22	5.5864	0.28
P-80® Grip-It	5.4652	5.4678	0.05	5.4718	0.12	5.4776	0.23	5.4771	0.22	5.4747	0.17
P-80® RediLube	6.6757	6.6813	0.08	6.6841	0.13	6.6922	0.25	6.6913	0.23		
P-80® THIX	6.5924	6.5978	0.08	6.5984	0.09	6.6101	0.27	6.6107	0.28	6.6131	0.31
P-80® Emulsion IFC	6.3231	6.3276	0.07	6.3284	0.08	6.335	0.19	6.3368	0.22	6.3361	0.21
P-80® THIX IFC	6.2593	6.2633	0.06	6.265	0.09	6.2723	0.21	6.2725	0.21	6.2721	0.20
RubberSlide®	5.8557	5.8617	0.10	5.8643	0.15	5.8745	0.32	5.8776	0.37	5.88	0.41

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	79.66	79.33	-0.41	79.5	-0.20	79.66	0.00	77.16	-3.14	78.16	-1.88
P-80® Emulsion	81.5	80	-1.84	80	-1.84	79.33	-2.66	79.5	-2.45	77.16	-5.33
P-80® Grip-It	79.66	80	0.43	79.5	-0.20	79.66	0.00	78.33	-1.67	78.83	-1.04
P-80® RediLube	80	80	0.00	78.5	-1.88	78.5	-1.88	78.50	-1.88		
P-80® THIX	78.67	78.00	-0.85	78.50	-0.21	77.33	-1.69	77.00	-2.12	76.00	-3.39
P-80® Emulsion IFC	79.33	78.33	-1.26	79.00	-0.42	77.83	-1.89	78.50	-1.05	77.50	-2.31
P-80® THIX IFC	79.67	79.00	-0.84	79.33	-0.42	77.17	-3.14	78.83	-1.05	77.33	-2.93
RubberSlide®	79.3	78.33	-1.22	78.33	-1.22	76.83	-3.11	75.66	-4.59	76.16	-3.96

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	2.026	2.028	0.10	2.027	0.05	2.031	0.25	2.027	0.05	2.031	0.25
P-80® Emulsion	2.029	2.024	-0.25	2.03	0.05	2.03	0.05	2.03	0.05	2.03	0.05
P-80® Grip-It	2.014	2.013	-0.05	2.017	0.15	2.014	0.00	2.011	-0.15	2.013	-0.05
P-80® RediLube	2.759	2.759	0.00	2.758	-0.04	2.76	0.04	2.763	0.13		
P-80® THIX	2.755	2.758	0.12	2.754	-0.01	2.757	0.08	2.757	0.07	2.754	-0.01
P-80® Emulsion IFC	2.657	2.658	0.05	2.659	0.09	2.662	0.18	2.662	0.19	2.665	0.31
P-80® THIX IFC	2.752	2.753	0.05	2.752	0.01	2.756	0.13	2.755	0.11	2.752	0.00
RubberSlide®	2.034	2.044	0.49	2.036	0.10	2.044	0.49	2.038	0.20	2.04	0.29

Polycarbonate

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	6.9953	6.9996	0.06	7.0003	0.07	7.0048	0.14	7.0043	0.13	7.0056	0.15
P-80® Emulsion	6.2194	6.2233	0.06	6.226	0.11	6.2291	0.16	6.2279	0.14	6.2299	0.17
P-80® Grip-It	6.1876	6.1966	0.15	6.195	0.12	6.1982	0.17	6.1956	0.13	6.1913	0.06
P-80® RediLube	5.9851	5.9911	0.10	5.9938	0.15	5.9969	0.20	5.9886	0.06		
P-80® THIX	6.0088	6.0147	0.10	6.0151	0.10	6.0217	0.21	6.0192	0.17	6.0183	0.16
P-80® Emulsion IFC	6.6913	6.6967	0.08	6.6976	0.09	6.7021	0.16	6.7023	0.16	6.6978	0.10
P-80® THIX IFC	6.9032	6.9093	0.09	6.911	0.11	6.9154	0.18	6.9138	0.15	6.9094	0.09
Rubber Slide®	6.1706	6.172	0.02	6.1738	0.05	6.1776	0.11	6.1781	0.12	6.1771	0.11

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	86.5	85.83	-0.77	85.83	-0.77	86.83	0.38	86	-0.58	85.5	-1.16
P-80® Emulsion	86.66	85.66	-1.15	85.5	-1.34	84.75	-2.20	85	-1.92	85.33	-1.53
P-80® Grip-It	86.5	86.66	0.18	86.5	0.00	85.83	-0.77	85.5	-1.16	85.83	-0.77
P-80® RediLube	86	85.66	-0.40	85.5	-0.58	86	0.00	86.50	0.58		
P-80® THIX	85.83	85.50	-0.39	85.67	-0.19	84.67	-1.36	84.83	-1.17	84.33	-1.75
P-80® Emulsion IFC	85.50	85.33	-0.19	85.33	-0.19	85.17	-0.39	85.33	-0.19	85.00	-0.58
P-80® THIX IFC	85.67	86.00	0.39	86.50	0.97	85.83	0.19	86.00	0.39	85.67	0.00
Rubber Slide®	87	85.5	-1.72	86	-1.15	83.83	-3.64	85.16	-2.11	85.33	-1.92

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	2.982	2.979	-0.10	2.982	0.00	2.981	-0.03	2.983	0.03	2.982	0.00
P-80® Emulsion	2.717	2.716	-0.04	2.716	-0.04	2.718	0.04	2.721	0.15	2.717	0.00
P-80® Grip-It	2.678	2.678	0.00	2.681	0.11	2.676	-0.07	2.677	-0.04	2.681	0.11
P-80® RediLube	2.676	2.676	0.00	2.676	0.00	2.675	-0.04	2.703	1.00		
P-80® THIX	2.675	2.672	-0.10	2.674	-0.01	2.673	-0.06	2.674	-0.02	2.670	-0.16
P-80® Emulsion IFC	2.909	2.912	0.09	2.911	0.07	2.912	0.09	2.911	0.06	2.912	0.09
P-80® THIX IFC	2.970	2.965	-0.15	2.967	-0.08	2.967	-0.08	2.963	-0.22	2.967	-0.10
Rubber Slide®	2.678	2.684	0.22	2.688	0.37	2.689	0.41	2.681	0.11	2.678	0.00

Polyetherimide

PEI, Ultem

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	4.0824	4.0901	0.19	4.0909	0.21	4.1017	0.47	4.1021	0.48	4.1052	0.56
P-80® Emulsion	4.087	4.0936	0.16	4.0978	0.26	4.1083	0.52	4.1073	0.50	4.1119	0.61
P-80® Grip-It	4.3304	4.3357	0.12	4.342	0.27	4.3533	0.53	4.3519	0.50	4.3454	0.35
P-80® RediLube	4.1328	4.1428	0.24	4.1483	0.38	4.1603	0.67	4.1508	0.44		
P-80® THIX	4.3451	4.3556	0.24	4.3573	0.28	4.3752	0.69	4.3734	0.65	4.3731	0.64
P-80® Emulsion IFC	3.4378	3.445	0.21	3.4462	0.24	3.4563	0.54	3.457	0.56	3.4536	0.46
P-80® THIX IFC	4.486	4.4939	0.18	4.4977	0.26	4.5086	0.50	4.5093	0.52	4.5023	0.36
RubberSlide®	4.2675	4.2755	0.19	4.2793	0.28	4.2904	0.54	4.2931	0.60	4.2933	0.60

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	93.5	92.66	-0.90	92.5	-1.07	93.5	0.00	92.66	-0.90	91.16	-2.50
P-80® Emulsion	93.16	92.5	-0.71	92.5	-0.71	92.5	-0.71	92.16	-1.07	91.5	-1.78
P-80® Grip-It	92	92.5	0.54	92.5	0.54	92	0.00	92	0.00	92.33	0.36
P-80® RediLube	92.5	92.16	-0.37	92.5	0.00	91.5	-1.08	92.33	-0.18		
P-80® THIX	92.50	92.33	-0.18	92.33	-0.18	92.00	-0.54	92.17	-0.36	92.00	-0.54
P-80® Emulsion IFC	91.17	91.33	0.18	91.00	-0.18	90.33	-0.91	90.67	-0.55	90.67	-0.55
P-80® THIX IFC	91.17	90.83	-0.37	91.33	0.18	91.00	-0.18	91.17	0.00	90.83	-0.37
RubberSlide®	92.16	90.66	-1.63	92.83	0.73	92.5	0.37	92.16	0.00	92.66	0.54

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	1.606	1.605	-0.06	1.606	0.00	1.608	0.12	1.582	-1.49	1.594	-0.75
P-80® Emulsion	1.624	1.626	0.12	1.629	0.31	1.631	0.43	1.631	0.43	1.631	0.43
P-80® Grip-It	1.589	1.588	-0.06	1.592	0.19	1.593	0.25	1.591	0.13	1.593	0.25
P-80® RediLube	1.589	1.593	0.25	1.592	0.19	1.592	0.19	1.592	0.17		
P-80® THIX	1.584	1.587	0.15	1.588	0.21	1.589	0.27	1.591	0.44	1.586	0.08
P-80® Emulsion IFC	1.595	1.591	-0.21	1.588	-0.42	1.595	0.04	1.595	0.04	1.592	-0.15
P-80® THIX IFC	1.601	1.604	0.19	1.597	-0.23	1.603	0.12	1.592	-0.58	1.594	-0.42
RubberSlide®	1.627	1.624	-0.18	1.635	0.49	1.636	0.55	1.632	0.31	1.631	0.25

Polypropylene

PP

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	6.3155	6.3154	0.00	6.3155	0.00	6.3157	0.00	6.3157	0.00	6.3158	0.00
P-80® Emulsion	6.2276	6.2275	0.00	6.2278	0.00	6.228	0.01	6.288	0.97	6.2283	0.01
P-80® Grip-It	6.169	6.1693	0.00	6.1693	0.00	6.1696	0.01	6.1696	0.01	6.1694	0.01
P-80® RediLube	6.4065	6.4067	0.00	6.4069	0.01	6.4072	0.01	6.4073	0.01		
P-80® THIX	6.2099	6.2097	0.00	6.2098	0.00	6.211	0.02	6.2106	0.01	6.2107	0.01
P-80® Emulsion IFC	6.1277	6.1283	0.01	6.1283	0.01	6.1287	0.02	6.1287	0.02	6.1290	0.02
P-80® THIX IFC	6.0937	6.0941	0.01	6.0939	0.00	6.0945	0.01	6.0942	0.01	6.0941	0.01
RubberSlide®	6.2665	6.266	-0.01	6.2661	-0.01	6.2664	0.00	6.2665	0.00	6.2665	0.00

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	74	77	4.05	76.66	3.59	77	4.05	75.5	2.03	75	1.35
P-80® Emulsion	77.83	76.33	-1.93	75.83	-2.57	77	-1.07	76.5	-1.71	75.83	-2.57
P-80® Grip-It	73	76	4.11	76	4.11	75	2.74	76	4.11	75.5	3.42
P-80® RediLube	76.5	76.5	0.00	76.5	0.00	75.5	-1.31	75.50	-1.31		
P-80® THIX	76.67	75.50	-1.52	76.67	0.00	75.67	-1.30	76.33	-0.43	76.67	0.00
P-80® Emulsion IFC	72.67	71.50	-1.61	71.83	-1.15	70.83	-2.52	70.83	-2.52	70.50	-2.98
P-80® THIX IFC	74.00	73.83	-0.23	73.83	-0.23	73.33	-0.90	73.67	-0.45	73.00	-1.35
RubberSlide®	78.33	77	-1.70	75.8	-3.23			74.66	-4.69	75.66	-3.41

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	3.334	3.313	-0.63	3.314	-0.60	3.317	-0.51	3.312	-0.66	3.312	-0.66
P-80® Emulsion	3.303	3.318	0.45	3.307	0.12	3.303	0.00	3.306	0.09	3.304	0.03
P-80® Grip-It	3.284	3.283	-0.03	3.283	-0.03	3.285	0.03	3.284	0.00	3.285	0.03
P-80® RediLube	3.308	3.305	-0.09	3.304	-0.12	3.306	-0.06	3.303	-0.14		
P-80® THIX	3.299	3.298	-0.01	3.309	0.30	3.305	0.18	3.305	0.19	3.299	0.01
P-80® Emulsion IFC	3.288	3.292	0.13	3.288	0.00	3.294	0.18	3.297	0.26	3.290	0.05
P-80® THIX IFC	3.354	3.351	-0.07	3.351	-0.09	3.351	-0.08	3.343	-0.31	3.354	0.00
RubberSlide®	3.3	3.295	-0.15	3.295	-0.15	3.294	-0.18	3.299	-0.03	3.295	-0.15

Polyurethane

PU, PUR

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	14.801	14.8395	0.26	14.8401	0.26	14.8968	0.65	14.9032	0.69	14.9179	0.79
P-80® Emulsion	12.0334	12.0743	0.34	12.1034	0.58	12.1624	1.07	12.1458	0.93	12.1806	1.22
P-80® Grip-It	14.9448	15.0094	0.43	15.0674	0.82	15.1478	1.36	15.1361	1.28	15.1048	1.07
P-80® RediLube	14.4116	14.4707	0.41	14.5173	0.73	14.5994	1.30	14.5528	0.98		
P-80® THIX	14.6	14.6644	0.44	14.6723	0.50	14.7703	1.17	14.7636	1.12	14.7633	1.12
P-80® Emulsion IFC	15.2092	15.3407	0.86	15.3958	1.23	15.579	2.43	15.634	2.79	15.6053	2.60
P-80® THIX IFC	14.6429	14.8086	1.13	14.8464	1.39	15.0172	2.56	15.0436	2.74	15.0369	2.69
RubberSlide®	14.7515	14.9233	1.16	15.0147	1.78	15.2162	3.15	15.2957	3.69	15.3408	3.99

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	63.83	65	1.83	64.16	0.52	63.83	0.00	64	0.27	64.83	1.57
P-80® Emulsion	76.16	75	-1.52	76	-0.21	74.83	-1.75	75.33	-1.09	75.33	-1.09
P-80® Grip-It	67.33	64	-4.95	64.5	-4.20	63.16	-6.19	64.66	-3.97	64	-4.95
P-80® RediLube	73.33	70.5	-3.86	72.5	-1.13	70.5	-3.86	72.50	-1.13		
P-80® THIX	73.00	73.17	0.23	73.00	0.00	71.67	-1.83	72.17	-1.14	73.00	0.00
P-80® Emulsion IFC	82.50	81.67	-1.01	80.83	-2.02	82.33	-0.20	80.00	-3.03	78.67	-4.65
P-80® THIX IFC	73.67	72.50	-1.58	73.17	-0.68	71.50	-2.94	71.33	-3.17	71.50	-2.94
RubberSlide®	63.66	63.66	0.00	62.33	-2.09	62.66	-1.57	63.16	-0.79	62.5	-1.82

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	6.415	6.398	-0.27	6.391	-0.37	6.401	-0.22	6.414	-0.02	6.433	0.28
P-80® Emulsion	4.89	4.893	0.06	4.893	0.06	4.909	0.39	4.905	0.31	4.909	0.39
P-80® Grip-It	6.286	6.318	0.51	6.326	0.64	6.319	0.52	6.316	0.48	6.315	0.46
P-80® RediLube	6.32	6.291	-0.46	6.299	-0.33	6.301	-0.30	6.301	-0.30		
P-80® THIX	6.360	6.348	-0.18	6.355	-0.07	6.361	0.01	6.391	0.49	6.384	0.38
P-80® Emulsion IFC	6.671	6.687	0.24	6.684	0.19	6.720	0.73	6.730	0.89	6.720	0.73
P-80® THIX IFC	6.302	6.321	0.30	6.329	0.43	6.367	1.03	6.348	0.73	6.357	0.87
RubberSlide®	6.379	6.315	-1.00	6.423	0.69	6.452	1.14	6.468	1.40	6.486	1.68

PPO

Poly(p-phenylene oxide)

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	6.846	6.848	0.03	6.8479	0.03	6.8518	0.08	6.8519	0.09	6.8536	0.11
P-80® Emulsion	6.9686	6.9708	0.03	6.9722	0.05	6.9757	0.10	6.9747	0.09	6.9782	0.14
P-80® Grip-It	7.0011	7.004	0.04	7.0057	0.07	7.0085	0.11	7.0071	0.09	7.0038	0.04
P-80® RediLube	6.94417	6.9447	0.01	6.9463	0.03	6.9497	0.08	6.9445	0.00		
P-80® THIX	6.9872	6.9862	-0.01	6.986	-0.02	6.9911	0.06	6.9899	0.04	6.9892	0.03
P-80® Emulsion IFC	6.811	6.8138	0.04	6.8137	0.04	6.8179	0.10	6.8187	0.11	6.8155	0.07
P-80® THIX IFC	6.6725	6.6754	0.04	6.6763	0.06	6.6807	0.12	6.6801	0.11	6.6772	0.07
RubberSlide®	6.9894	6.9851	-0.06	6.9864	-0.04	6.9897	0.00	6.9907	0.02	6.9916	0.03

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	88.33	88.5	0.19	89	0.76	89.16	0.94	88.66	0.37	87.5	-0.94
P-80® Emulsion	88.5	88.16	-0.38	88.16	-0.38	89	0.56	88.16	-0.38	88	-0.56
P-80® Grip-It	88.33	88.5	0.19	88.5	0.19	87.5	-0.94	88.5	0.19	87.33	-1.13
P-80® RediLube	88	87.5	-0.57	88	0.00	88	0.00	88.17	0.19		
P-80® THIX	88.33	87.50	-0.94	88.17	-0.19	87.83	-0.57	87.17	-1.32	87.50	-0.94
P-80® Emulsion IFC	87.33	87.00	-0.38	87.50	0.19	87.00	-0.38	87.00	-0.38	87.50	0.19
P-80® THIX IFC	87.50	87.50	0.00	88.00	0.57	86.83	-0.76	87.17	-0.38	86.83	-0.76
RubberSlide®	89.33	88.5	-0.93	88.16	-1.31	88	-1.49	88	-1.49	88.33	-1.12

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	3.158	3.169	0.35	3.157	-0.03	3.157	-0.03	3.158	0.00	3.16	0.06
P-80® Emulsion	3.224	3.224	0.00	3.229	0.16	3.219	-0.16	3.225	0.03	3.221	-0.09
P-80® Grip-It	3.223	3.226	0.09	3.223	0.00	3.222	-0.03	3.224	0.03	3.224	0.03
P-80® RediLube	3.211	3.205	-0.19	3.205	-0.19	3.209	-0.06	3.203	-0.25		
P-80® THIX	3.214	3.211	-0.10	3.214	-0.01	3.217	0.08	3.214	0.00	3.216	0.06
P-80® Emulsion IFC	3.138	3.135	-0.11	3.134	-0.12	3.138	0.00	3.135	-0.10	3.144	0.18
P-80® THIX IFC	3.066	3.070	0.15	3.063	-0.09	3.067	0.04	3.065	-0.02	3.073	0.24
RubberSlide®	3.223	3.158	-2.02	3.226	0.09	3.225	0.06	3.227	0.12	3.226	0.09

PVC

Polyvinyl chloride; vinyl

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	9.8372	9.8384	0.01	9.8385	0.01	9.8415	0.04	9.8421	0.05	9.8437	0.07
P-80® Emulsion	8.7678	8.7689	0.01	8.77	0.03	8.7724	0.05	8.773	0.06	8.7752	0.08
P-80® Grip-It	9.9562	9.9571	0.01	9.958	0.02	9.9607	0.05	9.9606	0.04	9.9603	0.04
P-80® RediLube	9.7752	9.7768	0.02	9.7777	0.03	9.7809	0.06	9.7803	0.05		
P-80® THIX	10.0539	10.0557	0.02	10.0558	0.02	10.0605	0.07	10.0603	0.06	10.0613	0.07
P-80® Emulsion IFC	9.1305	9.1331	0.03	9.1333	0.03	9.1387	0.09	9.1398	0.10	9.1385	0.09
P-80® THIX IFC	8.8966	8.8989	0.03	8.8998	0.04	8.9055	0.10	8.9053	0.10	8.9051	0.10
RubberSlide®	9.7432	9.7447	0.02	9.745	0.02	9.7478	0.05	9.7489	0.06	9.7532	0.10

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	89	88.33	-0.75	89	0.00	89.5	0.56	88.5	-0.56	88.66	-0.38
P-80® Emulsion	88.5	88	-0.56	87.5	-1.13	88.16	-0.38	88	-0.56	87.5	-1.13
P-80® Grip-It	88.66	89.5	0.95	89.33	0.76	88.5	-0.18	89	0.38	88.5	-0.18
P-80® RediLube	88	88.16	0.18	88.5	0.57	89	1.14	88.50	0.57		
P-80® THIX	89.17	88.17	-1.12	89.50	0.37	88.67	-0.56	88.50	-0.75	88.00	-1.31
P-80® Emulsion IFC	84.00	84.00	0.00	85.00	1.19	84.00	0.00	84.33	0.40	84.33	0.40
P-80® THIX IFC	85.00	85.00	0.00	85.17	0.20	84.33	-0.78	85.17	0.20	84.00	-1.18
RubberSlide®	90.16	90	-0.18	88.66	-1.66	89.5	-0.73	88.5	-1.84	88.5	-1.84

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	3.55	3.537	-0.37	3.532	-0.51	3.537	-0.37	3.535	-0.42	3.534	-0.45
P-80® Emulsion	3.147	3.158	0.35	3.157	0.32	3.146	-0.03	3.156	0.29	3.146	-0.03
P-80® Grip-It	3.512	3.512	0.00	3.508	-0.11	3.509	-0.09	3.512	0.00	3.513	0.03
P-80® RediLube	3.528	3.527	-0.03	3.527	-0.03	3.528	0.00	3.526	-0.07		
P-80® THIX	3.535	3.536	0.02	3.537	0.04	3.541	0.15	3.536	0.03	3.537	0.04
P-80® Emulsion IFC	3.218	3.213	-0.18	3.206	-0.39	3.207	-0.36	3.214	-0.12	3.212	-0.19
P-80® THIX IFC	3.254	3.250	-0.11	3.255	0.05	3.259	0.16	3.250	-0.10	3.256	0.06
RubberSlide®	3.523	3.529	0.17	3.529	0.17	3.526	0.09	3.523	0.00	3.522	-0.03

SBR rubber

Styrene-butadiene rubber

Neolite, Buna S

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	10.9407	10.9462	0.05	10.9536	0.12	10.9619	0.19	10.9659	0.23	10.9592	0.17
P-80® Emulsion	11.7699	11.7943	0.21	11.8156	0.39	11.8687	0.84	11.887	0.99	11.9055	1.15
P-80® Grip-It	10.5553	10.5718	0.16	10.5861	0.29	10.627	0.68	10.62	0.61	10.6168	0.58
P-80® RediLube	12.4966	12.6382	1.13	12.7096	1.70	12.9388	3.54	13.0264	4.24		
P-80® THIX	12.2172	12.2475	0.25	12.2592	0.34	12.3503	1.09	12.3577	1.15	12.4036	1.53
P-80® Emulsion IFC	12.285	12.3658	0.66	12.3992	0.93	12.5544	2.19	12.6008	2.57	12.6414	2.90
P-80® THIX IFC	11.9008	11.9268	0.22	11.94	0.33	11.9928	0.77	11.9951	0.79	11.9910	0.76
Rubber Slide®	12.6897	12.7092	0.15	12.719	0.23	12.7501	0.48	12.7583	0.54	12.7558	0.52

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	82.83	86.83	4.83	84.33	1.81	86.33	4.23	84.66	2.21	84.66	2.21
P-80® Emulsion	86	83.16	-3.30	83.16	-3.30	78.5	-8.72	81.83	-4.85	77	-10.47
P-80® Grip-It	86.5	84.33	-2.51	84.16	-2.71	79.66	-7.91	84.16	-2.71	80.66	-6.75
P-80® RediLube	84.83	82.5	-2.75	81.5	-3.93	79.5	-6.28	77.00	-9.23		
P-80® THIX	86.67	86.50	-0.19	86.33	-0.38	85.00	-1.92	83.67	-3.46	84.67	-2.31
P-80® Emulsion IFC	87.33	85.67	-1.91	85.50	-2.10	81.67	-6.49	82.00	-6.11	79.83	-8.59
P-80® THIX IFC	89.50	88.17	-1.49	87.33	-2.42	85.33	-4.66	85.33	-4.66	85.17	-4.84
Rubber Slide®	85.16	84.33	-0.97	85.83	0.79	81.83	-3.91	83	-2.54	82.16	-3.52

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	4.332	4.338	0.14	4.345	0.30	4.343	0.25	4.338	0.14	4.342	0.23
P-80® Emulsion	4.345	4.349	0.09	4.359	0.32	4.396	1.17	4.398	1.22	4.412	1.54
P-80® Grip-It	4.299	4.297	-0.05	4.309	0.23	4.321	0.51	4.322	0.54	4.323	0.56
P-80® RediLube	4.305	4.366	1.42	4.386	1.88	4.497	4.46	4.528	5.18		
P-80® THIX	4.311	4.321	0.25	4.333	0.51	4.361	1.17	4.361	1.17	4.381	1.62
P-80® Emulsion IFC	4.318	4.347	0.66	4.367	1.13	4.425	2.49	4.441	2.85	4.443	2.90
P-80® THIX IFC	4.310	4.315	0.12	4.315	0.12	4.332	0.53	4.336	0.62	4.346	0.84
Rubber Slide®	4.323	4.328	0.12	4.322	-0.02	4.335	0.28	4.335	0.28	4.338	0.35

Silicone rubber

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	18.8186	18.821	0.01	18.8153	-0.02	18.8271	0.05	18.8196	0.01	18.8287	0.05
P-80® Emulsion	18.8679	18.9208	0.28	18.9459	0.41	19.0401	0.91	19.0448	0.94	19.1198	1.34
P-80® Grip-It	18.9841	19.0111	0.14	19.034	0.26	19.1207	0.72	19.0881	0.55	19.0811	0.51
P-80® RediLube	18.5359	18.7522	1.17	18.8743	1.83	19.2384	3.79	19.4497	4.93		
P-80® THIX	18.4522	18.4936	0.22	18.5134	0.33	18.6105	0.86	18.6304	0.97	18.684	1.26
P-80® Emulsion IFC	18.1582	18.2843	0.69	18.3418	1.01	18.565	2.24	18.6347	2.62	18.7007	2.99
P-80® THIX IFC	18.3712	18.466	0.52	18.4702	0.54	18.587	1.17	18.5894	1.19	18.5527	0.99
Rubber Slide®	18.4723	18.5637	0.49	18.5931	0.65	18.7333	1.41	18.7756	1.64	18.8181	1.87

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	49.33	50	1.36	49.5	0.34	50.16	1.68	49	-0.67	48.66	-1.36
P-80® Emulsion	49.33	47.16	-4.40	47.25	-4.22	47.16	-4.40	50.66	2.70	48	-2.70
P-80® Grip-It	49.66	50.66	2.01	45.33	-8.72	47.83	-3.69	50.83	2.36	55	10.75
P-80® RediLube	54.83	50.66	-7.61	52	-5.16	51	-6.99	59.00	7.61		
P-80® THIX	54.33	54.50	0.31	54.67	0.61	53.00	-2.45	54.17	-0.31	54.00	-0.61
P-80® Emulsion IFC	58.67	58.17	-0.85	58.83	0.28	59.33	1.14	59.17	0.85	59.00	0.57
P-80® THIX IFC	59.00	57.83	-1.98	57.83	-1.98	58.00	-1.69	58.17	-1.41	58.50	-0.85
Rubber Slide®	44.66	47.66	6.72	49.5	10.84	45.33	1.50	47.5	6.36	48.66	8.96

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	6.634	6.661	0.41	6.683	0.74	6.692	0.87	6.676	0.63	6.675	0.62
P-80® Emulsion	6.575	6.571	-0.06	6.63	0.84	6.608	0.50	6.619	0.67	6.614	0.59
P-80® Grip-It	6.402	6.402	0.00	6.447	0.70	6.469	1.05	6.419	0.27	6.493	1.42
P-80® RediLube	6.445	6.458	0.20	6.455	0.16	6.656	3.27	6.769	5.02		
P-80® THIX	6.438	6.478	0.61	6.498	0.93	6.494	0.87	6.496	0.90	6.530	1.42
P-80® Emulsion IFC	6.422	6.463	0.63	6.460	0.60	6.542	1.86	6.551	2.00	6.560	2.15
P-80® THIX IFC	6.414	6.396	-0.29	6.412	-0.03	6.433	0.30	6.436	0.34	6.441	0.42
Rubber Slide®	6.507	6.486	-0.32	6.659	2.34	6.661	2.37	6.763	3.93	6.647	2.15

Teflon
 Polytetrafluoroethylene (PTFE)
 Synolon

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	9.7558	9.7555	0.00	9.757	0.01	9.7559	0.00	9.7623	0.07	9.7559	0.00
P-80® Emulsion	9.6763	9.6762	0.00	9.6784	0.02	9.68	0.04	9.675	-0.01	9.6757	-0.01
P-80® Grip-It	10.9859	10.9816	-0.04	10.9828	-0.03	10.9812	-0.04	10.9817	-0.04	10.9813	-0.04
P-80® RediLube	10.0403	10.04	0.00	10.0399	0.00	10.04	0.00	10.0399	0.00		
P-80® THIX	10.0582	10.0589	0.01	10.0593	0.01	10.0602	0.02	10.0593	0.01	10.0608	0.03
P-80® Emulsion IFC	13.7586	13.7583	0.00	13.7592	0.00	13.7583	0.00	13.7611	0.02	13.7595	0.01
P-80® THIX IFC	14.2215	14.2227	0.01	14.2227	0.01	14.2227	0.01	14.2221	0.00	14.2222	0.00
Rubber Slide®	10.1775	10.1768	-0.01	10.1768	-0.01	10.1768	-0.01	10.1768	-0.01	10.1768	-0.01

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	46.33	50	7.92	50.5	9.00	49.33	6.48	47.16	1.79	49.16	6.11
P-80® Emulsion	51	52	1.96	51	0.00	52.5	2.94	50.83	-0.33	49.83	-2.29
P-80® Grip-It	51.16	49.16	-3.91	50	-2.27	49.66	-2.93	49.33	-3.58	48	-6.18
P-80® RediLube	51	49.66	-2.63	49	-3.92	49	-3.92	50.00	-1.96		
P-80® THIX	50.33	51.00	1.32	51.83	2.98	50.67	0.66	50.50	0.33	49.83	-0.99
P-80® Emulsion IFC	50.00	50.33	0.67	51.33	2.67	49.00	-2.00	49.83	-0.33	49.67	-0.67
P-80® THIX IFC	50.33	51.00	1.32	52.00	3.31	52.33	3.97	53.50	6.29	53.00	5.30
Rubber Slide®	53.83	50.5	-6.19	50.66	-5.89	49.5	-8.04	49.33	-8.36	50.66	-5.89

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	2.35	2.338	-0.51	2.346	-0.17	2.34	-0.43	2.341	-0.38	2.346	-0.17
P-80® Emulsion	2.293	2.291	-0.09	2.295	0.09	2.292	-0.04	2.298	0.22	2.295	0.09
P-80® Grip-It	2.299	2.291	-0.35	2.299	0.00	2.295	-0.17	2.291	-0.35	2.292	-0.30
P-80® RediLube	2.289	2.288	-0.04	2.291	0.09	2.295	0.26	2.288	-0.04		
P-80® THIX	2.295	2.294	-0.03	2.297	0.07	2.294	-0.06	2.300	0.21	2.301	0.24
P-80® Emulsion IFC	3.088	3.098	0.32	3.096	0.26	3.088	0.02	3.090	0.07	3.089	0.06
P-80® THIX IFC	3.212	3.212	-0.01	3.211	-0.04	3.211	-0.03	3.210	-0.08	3.212	-0.02
Rubber Slide®	2.309	2.308	-0.04	2.308	-0.04	2.311	0.09	2.314	0.22	2.31	0.04

Viton

FKM Rubber; fluoroelastomer FPM; Dyneon; Tecnoflon; Dai-El

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	8.429	8.4321	0.04	8.435	0.07	8.4396	0.13	8.4407	0.14	8.439	0.12
P-80® Emulsion	8.3415	8.3454	0.05	8.3487	0.09	8.3558	0.17	8.3584	0.20	8.3601	0.22
P-80® Grip-It	8.4149	8.418	0.04	8.4255	0.13	8.432	0.20	8.4297	0.18	8.4293	0.17
P-80® RediLube	7.7555	7.7616	0.08	7.7673	0.15	7.8019	0.60	7.8386	1.07		
P-80® THIX	8.9577	8.9631	0.06	8.9641	0.07	8.9813	0.26	8.9821	0.27	8.9898	0.36
P-80® Emulsion IFC	7.6068	7.6136	0.09	7.6161	0.12	7.6475	0.54	7.6578	0.67	7.6693	0.82
P-80® THIX IFC	8.5211	8.5272	0.07	8.5302	0.11	8.5302	0.11	8.5529	0.37	8.5539	0.38
Rubber Slide®	8.407	8.4119	0.06	8.4151	0.10	8.4235	0.20	8.4263	0.23	8.4245	0.21

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	80.17	81.5	1.66	80	-0.21	79.83	-0.42	80	-0.21	79.66	-0.64
P-80® Emulsion	79.33	77.16	-2.74	77.83	-1.89	78.33	-1.26	79.5	0.21	76.66	-3.37
P-80® Grip-It	79.66	78.66	-1.26	78.33	-1.67	77.33	-2.92	78.5	-1.46	76.16	-4.39
P-80® RediLube	81.5	77.66	-4.71	77.83	-4.50	78	-4.29	79.67	-2.25		
P-80® THIX	83.00	81.67	-1.61	81.00	-2.41	79.17	-4.62	78.67	-5.22	80.00	-3.61
P-80® Emulsion IFC	83.00	82.33	-0.80	81.83	-1.41	81.50	-1.81	80.50	-3.01	81.50	-1.81
P-80® THIX IFC	82.00	82.17	0.20	81.83	-0.20	80.17	-2.24	79.50	-3.05	80.33	-2.03
Rubber Slide®	80.37	79.66	-0.88	79.33	-1.29	77.66	-3.37	80.33	-0.05	77.66	-3.37

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	2.254	2.252	-0.09	2.255	0.04	2.27	0.71	2.267	0.58	2.254	0.00
P-80® Emulsion	2.271	2.268	-0.13	2.261	-0.44	2.262	-0.40	2.26	-0.48	2.262	-0.40
P-80® Grip-It	2.268	2.279	0.49	2.275	0.31	2.283	0.66	2.277	0.40	2.289	0.93
P-80® RediLube	2.271	2.26	-0.48	2.262	-0.40	2.263	-0.35	2.289	0.78		
P-80® THIX	2.280	2.273	-0.34	2.287	0.29	2.287	0.27	2.281	0.04	2.291	0.48
P-80® Emulsion IFC	2.192	2.176	-0.73	2.182	-0.43	2.191	-0.02	2.184	-0.33	2.198	0.27
P-80® THIX IFC	2.267	2.257	-0.46	2.269	0.07	2.269	0.06	2.267	-0.01	2.270	0.10
Rubber Slide®	2.272	2.27	-0.09	2.285	0.57	2.287	0.66	2.287	0.66	2.278	0.26

White nylon

Nylon 6/6

Mass											
	Initial	1 day		2 days		7 days		10 days		14 days	
	g	g	%	g	%	g	%	g	%	g	%
Water	6.2962	6.3356	0.63	6.344	0.76	6.4131	1.86	6.4336	2.18	6.4762	2.86
P-80® Emulsion	5.3421	5.3764	0.64	5.3974	1.04	5.4569	2.15	5.4606	2.22	5.0583	-5.31
P-80® Grip-It	5.3276	5.3618	0.64	5.3882	1.14	5.4432	2.17	5.4492	2.28	5.4582	2.45
P-80® RediLube	4.897	4.965	1.39	4.956	1.20	5.0112	2.33	5.0228	2.57		
P-80® THIX	5.6834	5.7254	0.74	5.7351	0.91	5.8109	2.24	5.8194	2.39	5.8508	2.95
P-80® Emulsion IFC	7.113	7.1483	0.50	7.1589	0.65	7.2196	1.50	7.2376	1.75	7.2496	1.92
P-80® THIX IFC	7.4373	7.4783	0.55	7.4965	0.80	7.4965	0.80	7.5828	1.96	7.6019	2.21
RubberSlide®	8.1499	8.1983	0.59	8.2196	0.86	8.2835	1.64	8.3066	1.92	8.332	2.23

Hardness											
	Initial	1 day		2 days		7 days		10 days		14 days	
			%		%		%		%		%
Water	81	79.66	-1.65	78.83	-2.68	75	-7.41	71.66	-11.53	73	-9.88
P-80® Emulsion	81.16	79.83	-1.64	77.33	-4.72	74	-8.82	74.16	-8.62	71	-12.52
P-80® Grip-It	81.16	79	-2.66	78.5	-3.28	73.5	-9.44	74.16	-8.62	74	-8.82
P-80® RediLube	82.5	79.66	-3.44	78	-5.45	75.5	-8.48	73.67	-10.71		
P-80® THIX	82.17	80.33	-2.23	79.33	-3.45	72.50	-11.76	71.67	-12.78	73.67	-10.34
P-80® Emulsion IFC	81.33	79.00	-2.87	78.83	-3.07	75.17	-7.58	74.67	-8.20	74.17	-8.81
P-80® THIX IFC	82.33	80.83	-1.82	80.50	-2.23	76.17	-7.49	75.67	-8.10	74.50	-9.51
RubberSlide®	82.33	81.16	-1.42	79.5	-3.44	76.33	-7.29	74.5	-9.51	75	-8.90

Width											
	Initial	1 day		2 days		7 days		10 days		14 days	
	mm	mm	%	mm	%	mm	%	mm	%	mm	%
Water	2.45	2.458	0.33	2.466	0.65	2.478	1.14	2.48	1.22	2.482	1.31
P-80® Emulsion	2.462	2.475	0.53	2.482	0.81	2.48	0.73	2.497	1.42	2.494	1.30
P-80® Grip-It	2.466	2.48	0.57	2.487	0.85	2.493	1.09	2.499	1.34	2.504	1.54
P-80® RediLube	2.443	2.456	0.53	2.462	0.78	2.468	1.02	2.475	1.30		
P-80® THIX	2.477	2.487	0.404	2.491	0.565	2.507	1.225	2.509	1.305	2.503	1.036
P-80® Emulsion IFC	3.176	3.186	0.30	3.187	0.34	3.204	0.86	3.207	0.95	3.209	1.02
P-80® THIX IFC	3.192	3.201	0.30	3.209	0.55	3.232	1.25	3.229	1.18	3.234	1.32
RubberSlide®	3.226	3.178	-1.49	3.233	0.22	3.252	0.81	3.253	0.84	3.254	0.87