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Elastomer Compatibility of P-80[®] Temporary Assembly Lubricants for Incidental Food Contact (IFC) Applications

Test Method: ASTM D471-79

P-80 Emulsion IFC and P-80 THIX IFC were tested for compatibility with selected elastomers and found to be safe for use with all of those tested. Results are below.

%Swell, Room Temperature

	Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
P-80 Emulsion IFC	22 Hours	1.0%	0.2%	0.0%	0.1%	0.3%	0.9%
	70 Hours	1.8%	0.8%	0.1%	0.1%	0.6%	-0.1%
P-80 THIX IFC	22 Hours	1.7%	0.7%	0.1%	-0.1%	0.0%	0.0%
	70 Hours	2.2%	1.5%	0.3%	-0.1%	0.0%	0.1%

%Swell, 85°C

	Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
P-80 Emulsion	22 Hours	8.4%	8.5%	0.3%	0.7%	-0.1%	0.2%
	70 Hours	11.5%	13.2%	2.0%	0.3%	1.4%	-1.7%
P-80 THIX	22 Hours	8.4%	10.5%	1.9%	1.2%	0.5%	-0.6%
	70 Hours	16.6%	16.8%	5.8%	2.6%	3.8%	-1.7%

Tap Water (Control Samples)

%Swell, 85°C

	Immersion Time	Buna-N	Neoprene	Butyl	EPDM	Viton	Silicone
Tap Water	22 Hours	1.0%	0.4%	0.0%	0.0%	0.0%	1.5%
	70 Hours	1.9%	1.0%	0.0%	0.0%	0.0%	1.6%

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 elastomer not shown.

Elastomers

Buna-N, (Nitrile), Mil-R-3065, ½"x ½"x ¼"; Neoprene, ASTM D2000, Type BC, ½"x ½"x ¼"; Butyl, ASTM D2000, Type BA, ½"x ½"x ¼"; EPDM, Ethylene Propylene Diene Methylene, ASTM D2000, Type HK, ½"x ½"x ¼"; Viton, (Fluorocarbon), ASTM D2000, Type HK, ½"x ½"x ¼"; Silicone, FDA Silicone, Type ZZ-R-765-E, Class 2A & B, 50A Durometer

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