



PRODUCT BULLETIN
*Chemical Resistance
 Compound 34831*

P-REX
 Perfluoroelastomer

The test data and advice shown here was provided by PAI supplier personnel and are based on information and tests believed reliable. They are intended for persons with knowledge and technical skills sufficient to analyze test types and conditions. **Customers should determine the suitability of our compounds in their own applications.** Please contact Precision Associates for samples suitable for testing purposes.

Chemical	Conditions		Rating	% Volume	% Hardness
	Time (hrs)	Temp (°C)		Change	Change
Ammonium Hydroxide (NH ₄ OH)	70	100°	1	+4.6	-1.3
Ammonium Hydroxide (NH ₄ OH)	168	100°	1	+7.6	0.0
Ammonium Hydroxide (NH ₄ OH)	672	100°	2	+10.7	-1.3
Aniline	70	70°	1	+0.9	1.3
Butyraldehyde	70	70°	3	+19.3	-10.0
Butyraldehyde	168	70°	3	+32.7	-16.0
Butyraldehyde	672	70°	3	+40.7	-20.0
Carbamide	500	140°	1	+2.4	-9.8
Carbamide	672	140°	1	+3.4	-3.7
Carbamide	168	175°	2	+0.8	-10.9
Chlorosulfuric Acid	2000	23°	1	+4.0	-8.8
Dichlorobenzene (o-)	70	40°	1	+0.3	-5.0
Dichlorobenzene (o-)	168	40°	1	+0.3	-5.0
Dichlorobenzene (o-)	672	40°	1	+0.3	-2.5
Dichlorobenzene (o-)	2000	179° (boiling)	1	+7.6	-8.8
Epichlorohydrin	70	100°	1	-0.1	-2.7
Epichlorohydrin	168	100°	2	+14.9	-5.3
Epichlorohydrin	672	100°	3	+25.9	-5.3
Ethylene Diamine	70	100°	1	+0.1	0.0
Ethylene Diamine	168	100°	3	+24.6	-26.8
Ethylene Diamine	672	100°	3	+37.1	-46.3
Ethylene Diamine	1000	100°	3	+175.6	-58.8
Ethylene Oxide (EtO)	70	50°	3	+11.8	-22.1
Ethylene Oxide (EtO)	168	50°	3	+14.0	-22.1
Ethylene Oxide (EtO)	672	50°	3	+35.5	-23.4

Rating 1—Recommended for continuous application
 2—Marginally Recommended
 3—Not Recommended



Chemical Resistance Compound 34831
continued

Chemical	Conditions		Rating	% Volume Change	% Hardness Change
	Time (hrs)	Temp (°C)			
Freon HCFC 134a	672	23°	3	+15	-15.8
Glacial Acetic Acid	672	100°	1	+3.8	-5.0
Hydrochloric Acid	70	80°	1	+0.6	-1.2
Hydrochloric Acid	168	80°	1	+1.1	-4.9
Hydrochloric Acid	672	80°	1	+2.2	-4.9
Hydrochloric Acid	1000	80°	1	+3.0	-6.2
Maleic Acid	672	90°	1	+1.8	0.0
Nitric Acid (HNO ₃)	70	85°	1	+0.3	0.0
Nitric Acid (HNO ₃)	168	85°	1	+1.6	-2.6
Nitric Acid (HNO ₃)	672	85°	1	+5.2	-4.0
Nitrotoluene	70	223°	1	+3.6	-3.8
Nitrotoluene	2000	223° (boiling)	1	+9.9	-3.8
Propylene Oxide	70	50°	2	+8.8	-11.7
Propylene Oxide	168	50°	2	+10.3	-11.7
Propylene Oxide	672	50°	3	+27.8	-16.9
Skydrol	125	70°	1	+2.5	-2.5
Steam	2000	151.6°	1	+3.6	-7.4
Steam	168	200°	1	+0.9	-6.3
Sulfuric Acid (H ₂ SO ₄)	1000	70°	2	+5.8	-13.0
Sulfuric Acid (H ₂ SO ₄)	70	100°	1	0.0	0.0
Sulfuric Acid (H ₂ SO ₄)	168	100°	1	+0.1	0.0
Sulfuric Acid (H ₂ SO ₄)	672	100°	1	+0.2	+5.2
Sulfuric Acid (H ₂ SO ₄)	70	175°	1	+1.5	0.0
Sulfuric Acid (H ₂ SO ₄)	168	175°	1	+3.5	-2.6
Sulfuric Acid (H ₂ SO ₄)	672	175°	1	+4.0	-5.2
Sulfuric Acid (H ₂ SO ₄)	1000	175°	1	+0.2	+5.2
Toluene diisocyanate (TDI)	672	100°	3	+50.5	-6.6
Water	672	225°	3	+62.4	-34.0
Xylene (o-)	70	40°	1	0.0	-1.2
Xylene (o-)	168	40°	1	+0.5	-1.2
Xylene (o-)	672	40°	1	+0.7	-4.9

Rating 1—Recommended for continuous application
2—Marginally Recommended
3—Not Recommended

www.PrecisionAssoc.com