



PRODUCT BULLETIN
34860 Chemical Resistance



Precision Associates P-REX™ compound 34860 is our Perfluoroelastomer with the widest range of chemical resistance and is the most affordable of our FFKM compounds. 34860 features:

**Low permeation and swell
in a broad range of chemicals**

**Low extractables in a wide
range of chemicals**

Low to no metal ion extractables

**Upper temperature use
of 428°F (220°C)**

Typical Physical Properties	
Shore A Hardness	80 Durometer
Color	Black
Tensile Strength	1800 psi
Ultimate Elongation	150 %
Modulus 100% Elongation	875 psi
Compression Set	
70 Hrs @ 392°F (200°C)	26 %
70 Hrs @ 450°F (232°C)	37 %
70 Hrs @ 500°F (260°C)	55 %

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 Name	Conditions		Rating	% Volume Change	Durometer Change
	Time (hrs)	Temp (°C)			
Acetic Acid, Glacial	168	40°	A	+2.3	+1
Acetic Acid, 10%	168	reflux	A	+1.5	0
Acetic Anhydride	168	23°	A	-0.2	+1
Acetone	24	23°	A	+0.4	0
Acetone	168	23°	A	-0.2	-1
Acetone	720	40°	A	+4.7	-7
Ammonium Hydroxide	168	23°	B	+0.4	0
Ammonium Hydroxide	168	100°	C	+15.0	+10
Benzene	168	50°	A	+1.4	-3
Benzene	168	100°	A	+6.2	-5
Black Liquor	168	150°	A	+5.0	-1
Butyl Acetate	168	23°	A	-0.5	-1
Carbon Tetrafluoride	168	23°	A	-0.4	-2
Cyclohexanone	168	23°	A	-0.7	-2

Rating
A - Recommended for continuous application
B - Capable for continuous application
C - Limited application usage
D - Not Recommended



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Chemical Name	Conditions		Rating	% Volume Change	Durometer Change
	Time (hrs)	Temp (°C)			
Dimethylamine	168	40°	A	+3.6	-6
Dimethyl Formamide (DMF)	168	23°	A	-0.1	0
Ethanol	720	40°	B	+2.1	-4
Ethanol Amine	168	23°	A	-0.8	-2
Ethyl Acetate	168	23°	A	+0.4	-1
Ethylene Diamine	70	40°	A	+0.6	0
Ethylene Diamine	168	40°	A	-0.9	0
Ethylene Oxide	168	23°	A	+2.0	-5
Freon 11	168	15°	B	+8.0	-9
Freon 134A	168	23°	B	+14.7	-10
Freon 134A	168	100°	C	+25.6	-15
Furfural, (Furfuraldehyde)	168	40°	A	+0.5	+1
Furfural, (Furfuraldehyde)	720	40°	B	+0.5	-2
Hexamethylene Diamine	70	40°	A	-0.4	-2
Hexamethylene Diamine	168	40°	A	-0.5	-1
Hexane	168	23°	A	+0.8	+1
Hydrochloric Acid 10%	168	40°	A	+1	-1
Hydrochloric Acid 37%	72	23°	A	-1.1	0
Hydrochloric Acid 37%	72	80°	C	+19.8	-8
Hydrochloric Acid 37%	720	80°	D	+47.6	-7
Hydrofluoric Acid (48%)	720	80°	C	+28.4	-7
Hydrofluoric Acid (60%)	168	23°	A	+1.0	+1
Hydrogen Peroxide (30%)	168	70°	C	+37.0	-28
IRM-903	70	230°	A	+2.8	-1
Isopropyl Alcohol	168	40°	A	+0.3	-4
Methanol	168	23°	A	-0.6	0
Methanol	168	40°	A	+1.0	0
Methylene Chloride	168	23°	A	+2.0	-4
Methy Ethyl Ketone (MEK)	70	23°	A	-0.2	-1
Methy Ethyl Ketone (MEK)	168	23°	A	+1.0	0
Methy Ethyl Ketone (MEK)	720	40°	B	+4.8	-5
Methyl Isobutyl Ketone	168	23°	A	-0.3	0
MTBE	168	23°	A	-0.6	0

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Chemical Name	Conditions		Rating	% Volume Change	Durometer Change
	Time (hrs)	Temp (°C)			
Mobil 254	70	200°	A	+2.1	+1
Mobil 254	250	200°	B	+9.5	0
Mobil 254	500	200°	B	+18.3	+2
Nitric Acid (55%)	72	23°	A	+0.8	0
Nitric Acid (69%)	168	40°	A	+6.0	-3
Propylene Oxide	168	23°	A	+2.0	-3
Pyridine	168	23°	A	-0.4	-1
Skydrol 500	70	121°	A	+3.9	-2
Skydrol 500	70	150°	D	+14.0	-8
Skydrol 500	168	121°	A	+3.4	-2
Skydrol 500	168	150°	D	+14.2	-9
Sodium Hydroxide (20%)	168	23°	A	+1.0	-1
Sodium Hydroxide (20%)	168	100°	A	+1.0	0
Sodium Hydroxide (50%)	168	23°	A	0.0	+1
Sodium Hydroxide (50%)	168	150°	A	-1.9	+4
Steam	168	160°	C	+9.5	-3
Steam	168	200°	D	+12.1	-4
Steam	168	232°	D	+44.7	-7
Steam	168	250°	D	+22.6	-16
Styrene	168	23°	A	-0.2	+1
Styrene	168	40°	A	+1.6	-2
Tetrahydrofuran (THF)	168	23°	A	+0.8	-3
Tetrahydrofuran (THF)	168	40°	A	+2	-2
Toluene	168	23°	A	-0.8	0
Toluene	168	40°	A	+1.0	-1
Toluene	720	40°	C	+3.5	-6
Triethanol amine (TEA)	168	23°	A	+0.3	-1
Wagner 21B Brake fluid	168	23°	A	+0.5	+1
Water	168	160°	C	+11.2	-3
Water	168	200°	C	+14.3	-5
Water	168	232°	C	+11.8	-4
Water	168	250°	D	+34.9	-32
Xylene	168	23°	A	+1.0	-1
Xylene	720	40°	B	+1.0	-11

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