



## Special EPDM Compound

For use in Electrochemical Chlor-Alkali, Hypo, Lithium Hydroxide, Chlorate, and Electrochemical Metal Refinery Plants, as well as Bleaching Pulp Mills

“Panacea”® 6962 is a SPECIAL compound elastomer of EPDM (Ethylene Propylene, Diene, Monomer), compounded with a high content of polymer ≥53%, with a peroxide cure.

- Typical service: -60°F to +300°F (-51°C to +149°C)
- Better sealing ability (compression set), compared to commercial-grade EPDM
- 6962 is an ideal material for parts requiring a wide resistance to chemicals utilized and produced in the Chlorine, Caustic, and Bleach Industries.
- 6962 is compounded without the use of Calcium or Magnesium as ingredients. Otherwise, these types of metals are potentially injurious to fluoro-based Electrolytic Membranes.
- This SPECIAL compound 6962 EPDM exhibits resistance to most acids, bases and polar solvents such as water, phosphate ester, Ketones, alcohols, and glycols. EPDM swells considerably in aliphatic, aromatic, and chlorinated solvents. This compound is resistant to ozone attack and is weather resistant.

### Our standard offering is:

Sheet Width	Available Thicknesses	
	Inches	mm
48"	1/8	3.1
	3/16	4.7
	1/4	6.3
	3/8	9.5
52"	1/32	.79
	1/16	1.6
66"	1/8	3.1
72"	1/4	6.3

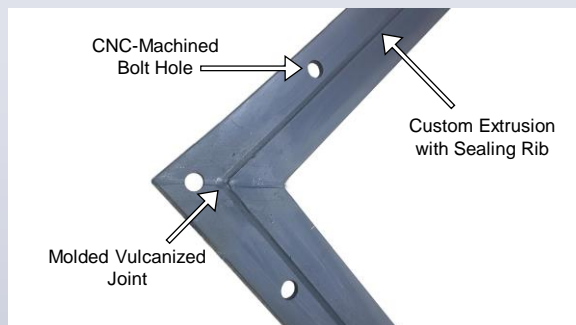
Other sheet widths and thicknesses are also in stock, for more custom needs.

Typical Service Applications
Acidified Brine
Alkaline Brine
Brine (Sodium and Potassium Chlorides)
Chlorine Dioxide
Hot, Wet, Chlorine Gas
Hydrochloric Acid (37% conc.)
Hydrogen Gas
Hypochlorous Acid Gas
Lithium Hydroxide
Potassium Hydroxide (to 33% conc.)
Sodium Chlorate
Sodium Chlorate/with Hypo
Sodium Hydroxide (Caustic Soda to 50% conc.)
Sodium Hypochlorite
Sulfur Dioxide
Ultra-Pure Brine



SPECIAL “Panacea”® 6962 material is manufactured into gasketing, tubing, hose, Diaphragm grid protectors, Membrane frame gasketing, expansion joints, molded and fabricated parts.

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## Representative Physical Properties

Property	ASTM	Mandrel Made	Press Cured and Molded
Hardness, Shore "A"	D2240	62 ± 5	60 ± 5
Tensile, P.S.I	D412	1900	1800
Elongation	D412	350%	350%
Compression set 70 Hrs. – @ 212°F	D395(B)	<25%	<25%

## Chemical Resistance of 6962 to Corrosive Environments

Chlorine Dioxide		
Concentrated Gas		A
Aqueous Solution		A
Chlorine Gas		
Hot, Wet		A
Aqueous Solution		A
Hydrochloric Acid		
37% Cold		A
37% Hot		A
Hydrogen Gas		
Lithium Hydroxide		
Sodium Chlorate		
Sodium Chlorate / with Hypo (to 180°F / 82.2°C)		
Sodium Hydroxide		
Sodium Hypochlorite pH 12-13 to 29% Concentration		
Sulfur Dioxide		
Sulfuric Acid Cold		
Dilute		A
Concentrated		C
A – Little or no effect.		
B – Minor effect but still serviceable in most applications.		
C – Moderate to severe effect. Still serviceable in some applications.		

6962-*M* comes complete with easy to seal ribs: Present sizing in 1", 2", 3", 4" ANSI 150# Full-Face 1/8" thick gaskets  
More sizes coming soon.

## SPECIAL 6962 EPDM PRODUCT APPLICATION:

Molded, Extruded, Vulcanized or Die Cut • Gasketing • Fabricated Parts • Expansion Joints  
Molded Seals • Grid Protectors • Membrane Frame Gasketing • Tubing • Hose • Connector Hose