



PANACEA® 6962

Special EPDM Compound

for use in Electrochemical Chlor-Alkali and Chlorate Plants; Electrochemical Metals Refinery Plants, and Bleaching Pulp Mills

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

This unique compounding provides resistance to temperatures through 300°F on a wide range of chemicals and maintains its resistance to compression set better than “commercial” grades of EPDM.

6962 is an ideal material for parts requiring a wide resistance to chemicals utilized and produced in the Chlorine, Caustic, and Bleach Industries.

For purposes of utilizing 6962 stock in Electrolytic Membrane-type Chlor-Alkali applications, 6962 is compounded without the use of Calcium or Magnesium as ingredients. These types of metals or elements are potentially injurious to fluorobased Membranes; the fact that 6962 is compounded without these ingredients, makes it a prime consideration for Gasketing in Electrolytic Membrane applications.

Typical Service Applications

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



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

Serving the Chemical Industry Worldwide | www.princerp.com

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Panacea[®] 6962

Special EPDM Peroxide Cured

Representative Physical Properties			
	ASTM	MANDREL MADE	PRESS CURED AND MOLDED
Compound No.		6962M	6962
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%



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. We have found that 6962 generally outperforms any “commercial” grade EPDM.

Chemical Resistance of 6962 to Corrosive Environments

Sodium Hydroxide	A
Sodium Hypochlorite pH 12-13 to 29% Concentration	A
Chlorine Gas	
Hot, Wet	A
Aqueous Solution	A
Sodium Chlorate	A
Sodium Chlorate / with Hypo (to 180°F)	A
Chlorine Dioxide	
Concentrated Gas	A
Aqueous Gas	A
Hydrogen Gas	A
Hydrochloric Acid	
37% COLD	A
37% HOT	A
Sulfur Dioxide	A
Sulfuric Acid Cold	
Dilute	A
Concentrated	C
Sulfur Dioxide	A

A — Little or no effect.

B — Minor effect but still serviceable in most applications.

C — Moderate to severe effect but still serviceable in some applications.

SPECIAL 6962 EPDM PRODUCT APPLICATION:

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