“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

Northern Headquarters: 137 Arthur Street • Buffalo, NY 14207 • (716) 877-7400 • Fax (716) 877-0743 • contact@princerp.com
Southern Division: 11400 Richcroft Avenue • Baton Rouge, LA 70814 • (225) 272-1653 • Fax (225) 272-1938
Industrial Plastics Canada Limited: 625 Industrial Drive • P.O. Box 93 • Fort Erie, Ontario • L2A 5M6 Canada • (905) 871-0412
Panacea® 6962
Special EPDM Peroxide Cured

Representative Physical Properties

<table>
<thead>
<tr>
<th></th>
<th>ASTM</th>
<th>MANDREL MADE</th>
<th>PRESS CURED AND MOLDED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compound No.</td>
<td></td>
<td>6962M</td>
<td>6962</td>
</tr>
<tr>
<td>Hardness — Shore “A”</td>
<td>D2240</td>
<td>62 ± 5</td>
<td>60 ± 5</td>
</tr>
<tr>
<td>Tensile, P.S.I.</td>
<td>D412</td>
<td>1900</td>
<td>1800</td>
</tr>
<tr>
<td>Elongation %</td>
<td>D412</td>
<td>350</td>
<td>350</td>
</tr>
<tr>
<td>Compression set</td>
<td>D395(B)</td>
<td>&lt; 25%</td>
<td>&lt; 25%</td>
</tr>
<tr>
<td>70 Hrs. – @ 212°F</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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.

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