This rubber properties chart provides a guide for the selection of an elastomer for sealing pipe penetrations, LPS link seal belts, disk seals and manhole connector seals, are available at WestAtlantic Tech Corp.

EDPM and Nitrile/NBR are the most common seal elements. 36 psi (80 foot water head) and greater may be supplied in different rubber elements and galvanized or stainless hardware.

**General Rubber Properties Chart**

<table>
<thead>
<tr>
<th>ELASTOMER</th>
<th>Butyl (IIR)</th>
<th>EPDM</th>
<th>Hypalon</th>
<th>Natural (NR)</th>
<th>Neoprene (CR)</th>
<th>Nitrile (NBR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-45 to 150°C</td>
<td>-50 to 140°C</td>
<td>-35 to 150°C</td>
<td>-45 to 95°C</td>
<td>-35 to 110°C</td>
<td>-35 to 125°C</td>
</tr>
<tr>
<td>Mechanical Strength</td>
<td>Fair / Poor</td>
<td>Fair / Good</td>
<td>Good / Excellent</td>
<td>Excellent</td>
<td>Good / Excellent</td>
<td>Good</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>Good</td>
<td>Fair</td>
<td>Good</td>
<td>Good / excellent</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Flex Resistance</td>
<td>Good</td>
<td>Fair</td>
<td>Good</td>
<td>Excellent</td>
<td>Good</td>
<td>Fair</td>
</tr>
<tr>
<td>Low Temp. Flexibility</td>
<td>Good</td>
<td>Good / Excellent</td>
<td>Fair / Good</td>
<td>Good</td>
<td>Fair / Good</td>
<td>Fair / Good</td>
</tr>
<tr>
<td>Ozone/Weather Resistance</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Poor / Fair</td>
<td>Good</td>
<td>Fair</td>
</tr>
<tr>
<td>Water Resistance</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Impermeability to Gases</td>
<td>Excellent</td>
<td>Good</td>
<td>Good / Excellent</td>
<td>Fair</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Oil Resistance</td>
<td>Poor</td>
<td>Poor</td>
<td>Fair</td>
<td>Poor</td>
<td>Fair</td>
<td>Excellent</td>
</tr>
<tr>
<td>Fuel Resistance</td>
<td>Poor</td>
<td>Poor</td>
<td>Poor / Fair</td>
<td>Poor</td>
<td>Poor / Fair</td>
<td>Good</td>
</tr>
<tr>
<td>Resistance to Dilute Acid</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Excellent</td>
<td>Good</td>
<td>Fair</td>
<td>Excellent</td>
</tr>
<tr>
<td>Resistance to Dilute Alkali</td>
<td>Excellent</td>
<td>Good</td>
<td>Excellent</td>
<td>Fair</td>
<td>Fair</td>
<td>Good</td>
</tr>
<tr>
<td>Special Properties</td>
<td>Self extinguishing, good pigmentation</td>
<td>Self extinguishing</td>
<td></td>
<td></td>
<td></td>
<td>Fuel and oil resistance</td>
</tr>
</tbody>
</table>
## ELASTOMER

### Operating Temperature
- Polyurethane (PU)
  -50 to 90°C
- SBR
  -40 to 95°C
- Silicone (SI)
  -60 to 300°C
- TPE
  -40 to 80°C
- Vamac (AEM)
  -30 to 175°C
- Viton (FKM)
  -20 to 250°C

### Mechanical Strength
- Excellent
- Good
- Poor
- Good / Excellent
- Fair / Good
- Good

### Abrasion Resistance
- Excellent
- Excellent
- Fair
- Good / Excellent
- Good
- Good

### Flex Resistance
- Excellent
- Good
- Poor / Fair
- Good / Excellent
- Fair / Good
- Poor / Fair

### Low. Temp Flexibility
- Good
- Good
- Excellent
- Good
- Fair
- Poor / Fair

### Ozone/Weather Resistance
- Excellent
- Poor / Fair
- Excellent
- Excellent
- Excellent
- Excellent

### Water Resistance
- Excellent
- Poor / Fair
- Excellent
- Excellent
- Excellent
- Excellent

### Impermeability to Gases
- Good
- Fair
- Poor
- Good / Excellent
- Good / Excellent
- Good / Excellent

### Oil Resistance
- Good / Excellent
- Poor
- Poor / Fair
- Poor / Fair
- Good
- Excellent

### Fuel Resistance
- Good
- Poor
- Poor
- Poor
- Poor / Fair
- Excellent

### Resistance to Dil. Acid
- Fair
- Fair
- Fair
- Fair
- Fair
- Good

### Resistance to Dil. Alkali
- Good
- Fair
- Fair
- Fair
- Poor
- Fair

### Special Properties
- Abrasion resistance
- Heat resistance
- Non halogen / low smoke emission
- Heat and chemical resistance

These properties are intended only as a guide. Please consult us if you require more detailed application information.

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