Reinforced Polytetrafluoroethylene (FC-10)

FC-10 is recommended for use in dry applications; it is not recommended for use in water and aqueous solution applications because it exhibits high wear. FC-10 is recommended for general-service food contact applications at temperatures from -70 °F to +450 °F (-57 °C to +232 °C).

Chemical Compatibility

FC-10 has limited chemical compatibility. It is not suitable for contact with aqueous solutions. For more information on chemical compatibility, reference Technical Report TR-60A in our online technical library at www.balseal.com.

FDA Compliance

FC-10 is an “FDA compatible and compliant” material for use in food contact.

Mechanical properties

The mechanical properties of FC-10 at ambient temperatures are:

- Tensile strength: ASTM D638, 2100 psi (148 kg/cm²)
- Elongation: ASTM D638, 230%

The following chart shows the wear rate of FC-10 when it comes in contact with different media at various speeds and pressures:

<table>
<thead>
<tr>
<th>&quot;K&quot; Wear Factor</th>
<th>AIR</th>
<th>WATER</th>
<th>OIL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wear Rate at 50,000 P.V.</td>
<td>Wear Rate at 100,000 P.V.</td>
<td>Wear Rate at 100,000 P.V.</td>
</tr>
<tr>
<td>Speed (75 FPM) – pressure (667 PSI)</td>
<td>Speed (100 FPM) – pressure (1000 PSI)</td>
<td>Speed (1000 FPM) – pressure (100 PSI)</td>
<td>Speed (1000 FPM) – pressure (100 PSI)</td>
</tr>
</tbody>
</table>

Color

White

Cost

$

Advantages of FC-10

- FDA compliant for components in contact with food

Other information

For additional information, please contact our Technical Sales Representative at (949) 460-2100. Bal Seal maintains a vast library of material references and testing information.