Medical Grade Peek (P 73)

P 73 is an implantable medical- and pharmaceutical-grade high-performance polymer that meets USP Class VI standards. These standards are widely used and accepted by the medical products industry.

P 73 can be repeatedly sterilized using conventional methods (including gamma radiation, ethylene oxide and steam), without loss of biocompatibility or degradation of mechanical properties.

In addition, P73 is characterized by extreme hydrolytic resistance (even at elevated temperature) and strong ionization resistance.

Chemical Compatibility
P73 displays excellent chemical resistance, as confirmed by a 30-day exposure to simulated body fluid environments. Test results show minimal effects on mechanical properties when exposed to sodium chloride solution, glycerol, vegetable oil and alcohol.

FDA Compliance
P 73 is an FDA compliant polymer. Bal Seal defines FDA compliant as "materials that have been deemed by the FDA to be safe for use in food contact or acceptable for use in food contact."

<table>
<thead>
<tr>
<th>Mechanical Property</th>
<th>Test Criteria</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (typical)</td>
<td>ASTM D638</td>
<td>14,500 PSI</td>
</tr>
<tr>
<td>Elongation (typical)</td>
<td>ASTM D638</td>
<td>20%</td>
</tr>
</tbody>
</table>

Color
Tan

Advantages of P 73
- FDA compliant
- Can be repeatedly sterilized
- Hydrolytic and chemical resistant
- Biologically compatible/implantable

Typical applications for P 73 include
- Parts for implantable medical devices
- Housing/pin materials for medical contacts
- Anti-extrusion backups for medical seals

For more information, contact a technical sales representative, or e-mail us at sales@balseal.com.