

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."

Mechanical Property	Test Criteria	Result
Tensile Strength (typical)	ASTM D638	14,500 PSI
Elongation (typical)	ASTM D638	20%

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.

It is essential that the customer run evaluation testing under actual service conditions with a sufficient safety factor to determine if the proposed, supplied or purchased Bal Seal Engineering, Inc. products are suitable for the intended purpose and to confirm expected results. Bal Seal Engineering, Inc. shall not be liable for any loss or damage of any kind or nature that may result from the use of, reference to, or reliance on the information contained herein, including but not limited to consequential, special (including loss of profits) direct, indirect, incidental or similar damages, even if Bal Seal Engineering, Inc. has been advised of the possibility of such damages. © 2014, Bal Seal Engineering, Inc. All rights reserved. M-69 Rev. NC (623-80) 04/03/14

Bal Seal U.S.: 19650 Pauling • Foothill Ranch, CA 92610-2610 • Tel: (949) 460-2100 • Fax: (949) 460-2300

Bal Seal Europe: Jollemanhof 16, 5th Floor • 1019 GW Amsterdam • The Netherlands • Telephone: 31 20 638 65 23 • Telefax: 31 20 625 60 18

Bal Seal Asia: Suite 901, Chinachem Century Tower • 178 Gloucester Road, Wanchai, Hong Kong • Telephone: +(852) 28681860 • Telefax: +(852) 22956753

Bal Seal Engineering, Inc. is certified to ISO 9001 and ISO/TS 16949 | www.balseal.com