

PEEK (P-71)

P-71 is a medical and pharmaceutical grade, high performance polymer that is certified to meet USP Class VI standards. USP Class VI has the most stringent testing of the six classifications of plastics. USP Class VI is widely used and accepted in the medical products industry as the minimum requirement that a raw material must meet to be considered for use in health care applications.

P-71 is suitable for repeated sterilization via gamma radiation, EtO, and steam with minimum deterioration of properties.

Chemical Compatibility

P-71 polymer is one of the most chemically resistant polymers available. **P-71** displays excellent chemical resistance, confirmed by 30-day exposure to simulated body fluid environments, using sodium chloride solution, glycerol, vegetable oil, and an alcohol, with no adverse influence on the mechanical properties of the material.

FDA compliance

P-71 is "FDA compliant." (Request Research Report 50-640 for Bal Seal's definition of FDA compliant).

Mechanical Properties

The mechanical properties of **P-71** at ambient temperatures are:

Tensile Strength	ISO 527 Type 1B	14.5 ksi
Elongation	ISO 527 Type 1B	20%

Color

Gray

Cost

\$\$\$\$\$

Advantages of P-71

- FDA compliant
- Can be sterilized via Gamma, EtO, and steam.
- Excellent chemical compatibility

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.

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 products are suitable for the intended purpose and to confirm expected results. Bal Seal Engineering makes no warranty, express or implied, regarding Bal Seal Engineering products or of the information contained herein, including but not limited to, warranties of merchantability, performance, and fitness for a particular use or purpose. Bal Seal Engineering 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 has been advised of the possibility of such damages. © 2010 M-44 Rev.B (623-46 and 623-64) RT-84(50-830) 04-13-10

U.S. Address 19650 Pauling Foothill Ranch, CA 92610-2610 • Telephone: (949) 460-2100 • Fax: (949) 460-2300
BV Address: VIDA Building, 1st Floor • Kabelweg 57 • 1014 BA Amsterdam • The Netherlands • Telephone: 31 20 638 65 23 • Fax: 31 20 625 60 18
Bal Seal Engineering is certified to [ISO 9001](#) | www.balseal.com