High-Performance Polymer (P- 43 HT)

Suitable for sealing viscous and abrasive materials in scraping-action applications at elevated temperatures, P- 43 HT performs well in low surface-speed applications and has superior tensile strength and excellent chemical compatibility.

P- 43 HT has high temperature and extrusion resistance, but has limited flexibility at temperatures below 200°F (93°C.) Operating temperatures of P- 43 HT range from -70 °F to +600 °F (-57 °C to +316 °C.)

P- 43 HT is recommended for scraping applications that require higher extrusion resistance and longer life.

Chemical Compatibility

P- 43 HT has excellent chemical compatibility. However, it is not recommended for use with strong acids, such as nitric, sulfuric and hydrofluoric acids. (For more compatibility information, request report TR-60A, or go to http://www.balseal.com/techlib, Select Technical Reports (Login Required), then select TR-60A Chemical Compatibility Guide)

FDA Compliance

P- 43 HT is made from an “FDA compliant” resin for use in food contact applications. (Request Research Report 50-640 for Bal Seal’s definition of FDA compliant).

Radiation Resistance

Suitable to $10^9$ rads.

Mechanical Properties

The mechanical properties of P- 43 HT at ambient temperatures are:

- **Tensile strength**: ASTM D638, 13,000 psi Min. (914 kg/cm$^2$)
- **Elongation**: ASTM D638, 40% Min

Color

Beige

Cost

$$$$$

Advantages of P- 43 HT

- Superior tensile strength
- Excellent extrusion resistance
- Excellent chemical compatibility
- Excellent temperature stability to 500°F (260°C)

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.