BAL SEAL® ENGINEERING, INC.

High-Performance Polymer (P-40 HT)

Suitable for sealing viscous and abrasive materials in scraping-action applications at elevated temperatures, **P- 40 HT** performs well in low surface-speed applications and has superior tensile strength and excellent chemical compatibility.

P- 40 HT has high temperature and extrusion resistance, but has limited flexibility at temperatures below 200 °F (93°C.) Operating temperatures of **P- 40 HT** range from –70 °F to +600 °F (-57 °C to +316 °C.)
P- 40 HT is recommended for scraping applications that require higher extrusion resistance and longer life.

Chemical Compatibility

P- 40 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- 40 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- 40 HT** at ambient temperatures are:

Tensile strength	ASTM D638	14,100 psi Min. (991 kg/cm ^{2})
Elongation	ASTM D638	10% Min

Color

Beige

Cost

$$$$$

Advantages of P- 40 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.

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Bal Seal Engineering is certified to ISO 9001 | www.balseal.com