

## High-Performance Polymer Blend (P170 HT)

**P170 HT** is a high-performance polymer blend, designed for sealing viscous and abrasive materials in scraping applications at elevated temperatures.

**P170 HT** exhibits high temperature and extrusion resistance, and has an operating temperature range from  $-70^{\circ}\text{F}$  to  $+600^{\circ}\text{F}$  ( $-57^{\circ}\text{C}$  to  $+316^{\circ}\text{C}$ ) under dynamic conditions. It is not recommended for sealing in applications below  $150^{\circ}\text{F}$  ( $65^{\circ}\text{C}$ ).

### Chemical Compatibility

**P170 HT** offers excellent chemical resistance to most fluids and gases; however, it is not recommended for use with sulfuric and nitric acids.

### FDA Compliance

**P170 HT** is not FDA compliant.

Mechanical Property	Test Criteria	Result
Tensile Strength (typical)	ASTM D638	16,500 PSI
Elongation (typical)	ASTM D638	6%
Coefficient of Friction (typical)	Bal Seal Method MT-56 (Tested at 20 FPM/1000 psi)	0.50

### Color

Dark Brown

### Advantages of P170 HT

- Superior tensile strength
- Excellent extrusion resistance
- Excellent chemical compatibility
- Performs in temperatures up to  $600^{\circ}\text{F}$  ( $316^{\circ}\text{C}$ ), depending upon the application

### Typical applications for P170 HT include

- Hot melt/glue gun applications
- Scraping applications at elevated temperatures
- Sealing viscous materials at elevated temperatures

For more information, contact a technical sales representative, or e-mail us at [sales@balseal.com](mailto: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-70 Rev. NC (623-81) 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, 5<sup>th</sup> 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](http://www.balseal.com)**