

High Performance Filled UHMWPE (UPC25)

UPC25 is a high temperature resistant filled UHMWPE material. It is designed to perform in chemical and thermal cycling applications with temperatures ranging up to 275 °F (135 °C) and it is well-suited for rotary and reciprocating equipment applications. **UPC25** can last up to 10 times longer than standard UHMWPE in higher temperature environments. Its anti-oxidant properties also make it a good material for applications with high oxygen concentration.

Chemical Compatibility

UPC25 is compatible with most fluids and gases. (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

UPC25 complies with FDA regulation 21 CFR 178.2010 and it is 21CFR 177.1520 USDA compliant.

(**FDA Compliant:** Bal Seal defines “FDA Compliant” as materials that have been found by the FDA to be “safe for use in food contact” or “acceptable for use in food contact”).

Mechanical Properties

Tensile Strength (typical)	5800 PSI (40 MPA)
Elongation (typical)	300%

Color

White/off-white

Advantages of UPC25

- Suitable for high temperature rotary and reciprocating applications
- Extended material life
- Resists abrasion, corrosion, chemicals and moisture.
- Excellent release characteristics
- Higher temperature range than standard UHMWPE

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 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. © 2013 Bal Seal Engineering, Inc. All rights reserved. M 65 Rev. NC (623-76) 11-13-13

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