UHMW Polyethylene (UPC16)

UPC16 is an ultra-high molecular weight (UHMW) polyethylene-based material; it is manufactured in a clean room environment for purity.

UPC16 has excellent wear resistance in water and other aqueous applications, and is suitable for low-speed, low-pressure service. It is recommended for food contact applications at temperatures from -450ºF to +180ºF (-268ºC to +82ºC).

**Chemical Compatibility**

UPC16 performs well in water and other aqueous solutions, and is highly suitable for use in contact with ketones, alcohols, amines, and esters. It has limited applications in contact with oxidizing acids and chlorinated solvents. **UPC16** can be sterilized with gamma radiation.

**FDA and USP Compliant**

UPC16 is an "FDA compliant" material for use in food contact. It meets FDA Regulation 21 CFR 177.1520, USDA, and USP XXIII, Class VI requirements. (Reference Report 623-3-1). (Request Report 50-640 for Bal Seal’s definition of FDA compliant).

**Mechanical Properties**

- **Tensile strength**: 5000 psi minimum (352 kg/cm²)
- **Elongation**: 300% minimum

**Color**

White, translucent

**Cost:**

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Typical Applications**

- Pharmaceutical dispensing and packaging equipment
- Food mixers and blenders
- Food processing equipment handling powders and slurries
- Surgical instruments
- Re-circulating laboratory pumps

**Other Information**

For more information, contact a technical sales representative, or e-mail us at sales@balseal.com.