

## 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 -450°F to +180°F (-268°C to +82°C).

### 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/cm <sup>2</sup> )
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](mailto:sales@balseal.com).

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