

Ultra Fend®

Description:

Ultra High Molecular Weight Polyethylene, averaging 3.1-6 million molecular weight. In full compliance with ASTM 4020-81 standards. Fully UV stabilized formulations are available in black or colors. Contact us for standard or custom color re-

| Property | Test Method | Unit | Value |
|--|-------------|--------------|-----------|
| Specific Gravity | ASTM D792 | g/cm3 | .935-.945 |
| Tensile, Ultimate | ASTM D638 | psi | 6300-6900 |
| Elongation at Break | ASTM D638 | percent | 400-450 |
| Flexural Modulus | ASTM D790 | Psi (1,000s) | 110-130 |
| Thermal Expansion | ASTM D648 | In/in/F | 9.0x10-5 |
| Hardnes R | ASTM D785 | — | 63-68 |
| Abrasion | Sand Slurry | — | 16 (good) |
| Izod Impact | ASTM D256 | Ft.lbs/notch | No break |
| Izod Impact (Modified with double notch) | ASTM D256A | Ft.lbs/notch | No break |
| Coefficient of Friction (vs. Steel) | ASTM D1894 | — | .11-.20 |

Poly Fend®

Description:

Ultra High Molecular Weight Polyethylene, mechanical blend of virgin UHMW resin & ground UHMW chips, averaging 3.1-6 million meolecular weight, in full compliance with ASTM 4020-81 standards. Fully UV stabilized formulations are available in black or colors. Contact us for standard or custom color requirements.

| Property | Test Method | Unit | Value |
|--|-------------|--------------|-----------|
| Specific Gravity | ASTM D792 | g/cm3 | .94-.955 |
| Tensile, Ultimate | ASTM D638 | psi | 4200-5100 |
| Elongation at Break | ASTM D638 | percent | 300-350 |
| Flexural Modulus | ASTM D790 | Psi (1,000s) | 102-120 |
| Thermal Expansion | ASTM D648 | In/in/F | 9.0x10-5 |
| Hardnes R | ASTM D785 | — | 65-70 |
| Abrasion | Sand Slurry | — | 14 (good) |
| Izod Impact | ASTM D256 | Ft.lbs/notch | No break |
| Izod Impact (Modified with double notch) | ASTM D256A | Ft.lbs/notch | 18-24 |
| Coefficient of Friction (vs. Steel) | ASTM D1894 | — | .11-.20 |

ULTRAPOLY

2926 South Steele St.
Tacoma, WA 98409

Ultra Poly's

UHMW Fender Systems Extend the Life of Ferry Docks & Pilings



Cape May, NJ

ULTRAPOLY

1-800-872-8469
2926 South Steele St.
Tacoma, WA 98409

Ultra Poly's continuous length fendering systems provide a superior replacement for hardwood fendering.

Because of its low coefficient of friction and the high impact strength, Ultra Fend allows vessels to guide freely along its surface while protecting against chipping, shredding, and catching due to impact. The result is a considerable savings in maintenance costs. Engineers estimate the maintenance interval to be at least 18 years.

Ultra Poly's fendering systems are available in standard black or custom UV stabilized colors, flat or formed, or fabricated to the special needs of our customers.



B. C. Ferries



B. C. Ferries used an aesthetically pleasing color scheme which complimented the colors of their ferries. Ultra Poly designed the color-matched red and blue Ultra Fend plates into the structure of the job.

Environmentally Friendly

- Ultra Fend requires no lubrication of any kind, so there is nothing harmful to wash off into the water.
- Ultra Fend requires no creosote, chromated copper arsenate or other harsh chemicals to retard rot or pests.
- Fewer great trees are used for fenders where Ultra Fend protects those wooden fenders already in place.
- Ultra Fend products can be recycled.

Ultra Fend Fitted Pile Wraps are rounded fenders designed to contour individual pile fronts.

Fitted Pile Wrap panels are factory formed to fit a given pile radius and beveled along the edges to further reduce possible edge catching and dislocation.

Wraps let hulls slide freely along piles and protect wood against shipping and shredding due to impact and abrasion.

Standard Fitted Pile Wraps are available in any length.



Call **1-800-872-8469** for more information.

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Manufacturers of High Impact UHMW