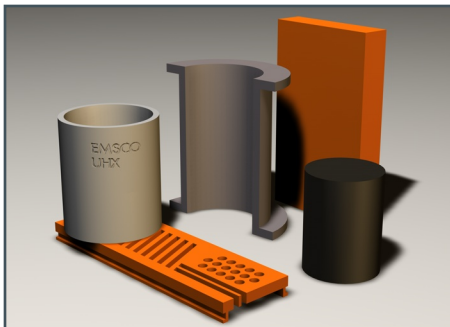


UHX™

engineered polymer



- MATERIAL FREE-FLOWING DUE TO LOW FRICTION
- FABRICATION WITH STANDARD TOOLS
- SUPERIOR ABRASION RESISTANCE
- 1/8 WEIGHT OF STEEL
- NON TOXIC AND CHEMICAL RESISTANT
- REPLACES STAINLESS STEEL AT LOWER COST

UHX™ is an engineered polymer that is highly abrasion resistant due to specialized additives and a unique cross-linked molecular structure. The smooth non-stick surface of **UHX™** promotes material flow in bulk handling applications, eliminating the need for vibrators and air cannons.

Suggested Applications:

| | | |
|------------------------|----------------------|--------------------|
| Bucket Elevator Guides | Conveyor Wear Strips | Mixer Paddles |
| Bunker Liners | Guide Rollers | Tripper Car Liners |
| Chain Guides | Hanger Bearing | Trough Liners |
| Chute Liners | Idler Wheels | Wear Pads |

Available Forms: UHX™ is available in Plate, Bar, and Tube.

Sizes: Standard Sheet: 1/8" min. - 4" max. thickness x 48" width x 120" length
Custom widths and lengths available.

Typical Mechanical Properties

| | UHX™ | Test Method |
|---------------------------------|---------------------------|---------------------|
| Coefficient of Friction | .07 | ASTM D 1894 |
| Density | 0.94 g/cm ³ | ASTM D 792 |
| Izod, Impact Strength at 23° C | 18 ft-lbs/in. | ASTM D 256A |
| Hardness, Durometer (D/15) | 68 | ASTM D 2240 |
| Abrasion Test | 90 | Internal % |
| Tensile Properties @ Yield | 3400 | ASTM D 638 2in/min. |
| @ Break | 4900 | ASTM D 638 |
| Elongation @ Break | 321% | ASTM D 638 |
| Flexural Modulus, 1% Secant PSI | 152 MPa | ASTM D 7908 |
| Mean Coefficient of Expansion | 1.6 x 10 ⁴ 1/K | Leitz Dilatometer |

Services Available: Complete Engineering, Fabrication, and Installation.

®

EMSCO

ENGINEERED MATERIALS & SERVICES COMPANY, INC.

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