

# TIVAR<sup>®</sup> H.O.T. UHMW-PE



## Customer benefits

- Extends material wear-life
- Excels in supported applications up to 135°C (275°F) when standard UHMW breaks down
- Lasts up to 10 times longer than standard UHMW in higher temperature environments
- Resists abrasion, corrosion, chemicals and moisture
- Meets FDA guidelines 21CFR 178.2010 and 21CFR177.1520 USDA compliant
- Exhibits excellent release characteristics

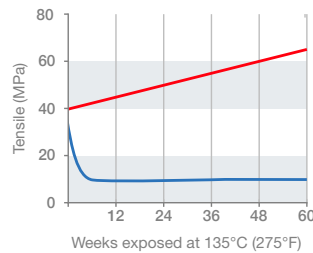
## Common applications

- Chain guides
- Conveyor components
- Flights & paddles
- Guide rails
- Liners
- Seals & valves
- Wearstrips, pads, & plates
- Rollers & sprockets
- Grain drag flights

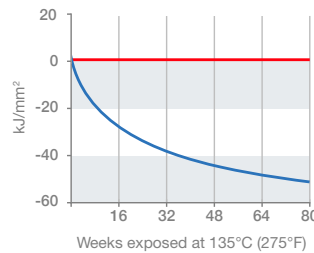
## Safe processing and high material performance at higher operating temperatures

Developed specifically to excel in chemical and thermocycling environments with temperatures ranging up to 135°C (275°F), TIVAR<sup>®</sup> H.O.T. UHMW-PE is becoming the material of choice for baking, food processing & packaging, conveyor manufacturing, grain processing and many other major industries where temperatures are too high for standard TIVAR<sup>®</sup> (but below the need for Teflon or other thermoplastics).

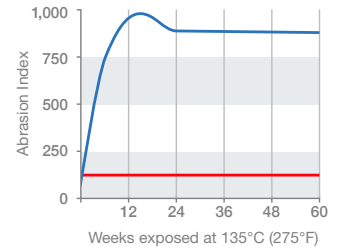
Tensile Comparison



Change in Izod Impact



Sand Wheel Testing



■ TIVAR<sup>®</sup> H.O.T. UHMW-PE   
 ■ STANDARD UHMW-PE

**Industries**

- Baking
- Chemical
- Confectionery
- Conveyor manufacturing
- Dairy
- Food processing & packaging
- Grain processing
- Medical

**Availability**

Sizes	Shapes
<ul style="list-style-type: none"><li>• 48" x 120" sheets with gauges ranging from 1/16" to 6"</li><li>• 48" x 240" sheets with gauges ranging from 3/4" to 3"</li><li>• Rod sizes from 0.5" to 6"</li><li>• Other sizes available on request</li></ul>	<ul style="list-style-type: none"><li>• Standard Shapes</li><li>• Custom Profiles</li><li>• Rod</li><li>• Tube</li><li>• Sheet</li></ul>

**Product applications**

**Food Processing**

Rollers, sprockets and wearstrips manufactured from TIVAR® H.O.T. UHMW-PE for applications in food processing show no signs of wear after numerous chemical and water washdowns, unlike their stainless steel counterparts.

**Grain Processing**

Grain drag flights manufactured from TIVAR® H.O.T. UHMW-PE last longer and perform better in higher temperatures or where chemicals such as Hexane are used than those manufactured from standard UHMW.

**Proofing Ovens**

TIVAR® H.O.T. UHMW-PE J-leg wearstrips are used in proofing ovens or food dehydrators.

**Grain Processing**

TIVAR® H.O.T. UHMW-PE candy mixing paddles solve discoloration, galling and wear problems associated with other thermoplastic materials.

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