

# TIVAR® H.O.T. UHMW-PE

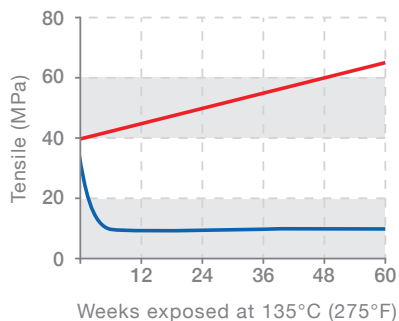
Developed specifically to excel in chemical and thermocycling environments with temperatures ranging up to 135°C (275°F), TIVAR® H.O.T. is becoming the material of choice for baking, food processing & packaging, conveyor manufacturing, grain processing and many other major industries where temperatures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



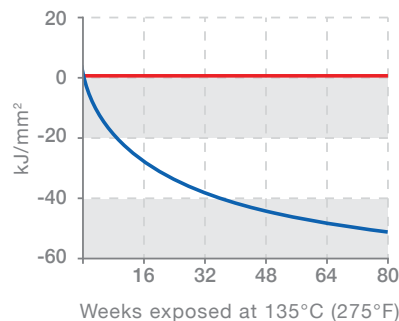
## Key Benefits

- 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 21CFR 177.1520 USDA compliant
- Exhibits excellent release characteristics

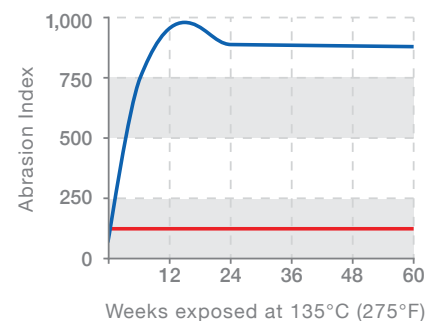
### Tensile Comparison



### Change in Izod Impact



### Sand Wheel Testing



█ TIVAR® H.O.T. UHMW-PE    
 █ STANDARD UHMW-PE



## Industries

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

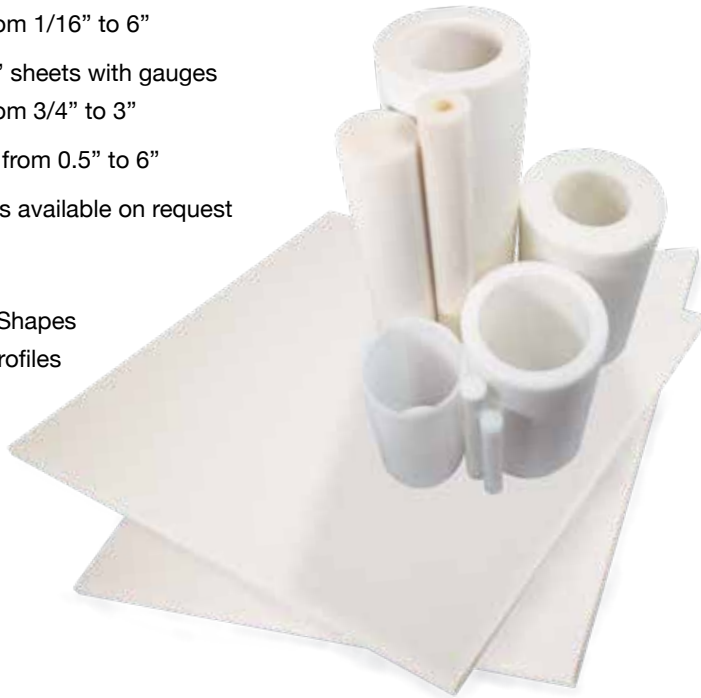
## Availability

### Sizes

- 48" x 120" sheets with gauges ranging from 1/16" to 6"
- 48" x 240" sheets with gauges ranging from 3/4" to 3"
- Rod sizes from 0.5" to 6"
- Other sizes available on request

### Shapes

- Standard Shapes
- Custom Profiles
- Rod
- Tube
- Sheet



## Common Applications

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



## Product Applications

### Food Processing

Rollers, sprockets and wearstrips manufactured from TIVAR® H.O.T. 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. 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. J-leg wearstrips are used in proofing ovens or food dehydrators.

### Candy Mixing Paddles

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

Distributed by:



Email: [info@polymershapes.com](mailto:info@polymershapes.com)  
Call: 1 (866) 437-7427  
[www.polymershapes.com](http://www.polymershapes.com)

All statements, technical information and recommendations contained in this publication are presented in good faith and are, as a rule, based upon tests and such tests are believed to be reliable and practical field experience. The reader, however, is cautioned, that Mitsubishi Chemical Advanced Materials does not guarantee the accuracy or completeness of this information and it is the customer's responsibility to determine the suitability of Mitsubishi Chemical Advanced Materials' products in any given application. TIVAR is a registered trademark of the Mitsubishi Chemical Advanced Materials group of companies.

Design and content created by Mitsubishi Chemical Advanced Materials and are protected by copyright law. Copyright © Mitsubishi Chemical Advanced Materials. All rights reserved.  
MCM-FP-03E | 8.28.19

