TIVAR® H.O.T.

- **Inhibits oxidation, extends material wear-life**
- **Extended operating temperature range**
- **Abrasion-, corrosion-, chemical and moisture-resistant**
- **Excellent release characteristics**
- **Meets FDA guidelines 21CFR178.2010 and 21CFR177.1520,USDA compliant**

Formulated to maintain key performance properties in an extended temperature range, TIVAR® H.O.T. will excel in a variety of industrial manufacturing environments where tempera tures range up to 275° F, nearly 100° F higher than competing UHMW-PE formulations. TIVAR® H.O.T. reduces the oxidization rate of the material at higher temperatures thereby slowing material degradation and extending wear-life in chemical, elevated temperature and thermo-cycling
environments. In many applications, TIVAR® H.O.T. will last up to 10 times longer in higher temperature environments and has excellent wear and release characteristics. TIVAR® H.O.T. is also a great material for use in conveyor systems or other equipment that is frequently exposed to chemical washdowns in such industries as poultry/meat processing and packaging. It can be also be used in applications ranging from wearstrips for spiral conveyors in the baking industry to drag conveyor flights for moving bulk materials (corn) in grain elevators, wearstrips for conveyor dryers in drying and dehydrating systems.

Standard sizes: 48” x 120” sheets with gauges ranging from 1/16” to 6” and 48” x 240” sheets with gauges ranging from 1/8” to 3”. Other sizes are available on request. It can also be extruded in a variety of standard and custom profiles

Color: White

Industries
- Baking
- Conveyor manufacturing
- Food processing & packaging
- Meat & poultry processing

Applications
- Chain guides
- Conveyor components
- Drying equipment
- Machined parts
- Wearstrips, pads and plates

Physical Properties

Property	Method ASTM	SI Unit	SI Value	Unit English	Value English
Yield Point	D-638	MPa	19.8	psi	2873
Elongation at Yield	D-638	%	200	%	200
Tensile Break	D-638	MPa	52.5	psi	7618
Izod Impact (Double Notch)	D-4020	kJ/m^2	60	$ft\text{-}lbs/in^2$	29
Static Friction	D-1894	Unitless	0.15	Unitless	0.15
Dynamic Friction	D-1894	Unitless	0.12	Unitless	0.12
Coefficient of Thermal Exp.	D-696	$°C^{-1}$	0.0002	$°F^{-1}$	0.00011
Melt Point	D-3417	°C	137-143	°F	278-289
Maximum Operating Temp.		°C	135	°F	275
Water Absorption	D-570	%	nil	%	nil

* Values are averages and are not specifications.
** ASTM test methods are under current procedures.