

# TIVAR® CleanStat White UHMW-PE

FDA and ATEX approved material for applications in pharmaceutical, food processing & packaging equipment



**White or light colors - all hygienic, safe and permanently electrostatic-dissipative**

## Trends

Economical drivers are key, whilst fulfilling demands on hygiene, quality and safety of products used in pharma & food processing equipment are a must. Concerns range from GMP (Good Manufacturing Practice) guidelines, seamless traceability within the entire production and transportation chain, to avoidance of colour traces or spots caused during the handling of pills and other sensitive processed products in the pharmaceutical and food industry. Contamination or explosion hazards presented by the handling of powder materials utilised both in drugs and food processing must be prevented. The ATEX Directive 2014/34/EU addresses these hazards and has also introduced the hazard of mechanical ignition into legislation for the first time.

TIVAR® CleanStat White UHMW-PE addresses all these demands and more from OEMs and end users in one material solution, the first one of its kind.

**The ATEX Directive 2014/34/EU** sets the rules for bringing products used in hazardous areas onto the market, and aims to protect people who work in these areas. The Directive contains essential health and safety requirements that have to be considered by the manufacturer and have



to be demonstrated in appropriate conformity. Since June 2003, only those devices, components and protective systems for use in hazardous areas which comply to the ATEX Directive 2014/34/EU can be placed on the market.

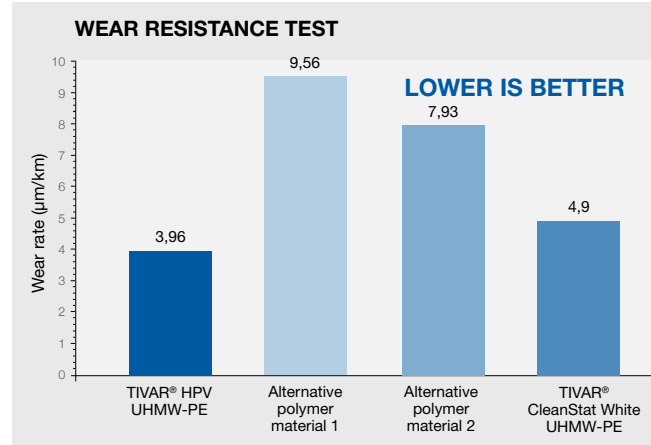
**Our product TIVAR® CleanStat White UHMW-PE was tested according to ATEX Directive 2014/34/EU for explosion groups I and II, and the plastic sample of this material had a surface resistance of up to 429 M Ohms, which is significantly below the limit of 1G Ohm. The product is suitable for use in potentially explosive atmospheres.**

## Product characteristics and benefits

- ATEX Directive 2014/34/EU approved
- FDA compliant (FDA 21CFR21)
- Processed conforming to the GMP guidelines
- Full product traceability
- Permanent antistatic behaviour (tested and proven for over 2 years\*)
- Excellent wear resistance
- Surface resistivity below  $10^{10}$  Ohm/ mm<sup>2</sup>
- Good machineability

### Availability

- White (standard)
- Light colours (on demand, tailor-made)



\* Data source: Mitsubishi Chemical Group, Advanced Materials Division Lab Tests

\* measured on a „plastics pin on rotating POM-C disk“ - tribo system, 3MPa pressure, 0.33m/s speed @23°C

### Which applications benefit from TIVAR® CleanStat White UHMW-PE?

#### Pharmaceuticals and drugs processing

- Drug pills pressing
- Guiders for pills filling
- Pistons and valves in drug powder dosing
- Guiders in counting equipment
- Labelling and printing equipment

#### Food processing & packaging

- Linings in sugar and flour processing
- Guiders for pudding weighting and filling
- Conveyor parts

#### Washing powder processing & packaging

- Conveyor parts

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