

The first electrically conductive FDA- and EU-approved UHMW Polyethylene



Why choose TIVAR® CleanStat™ EC UHMW-PE?

- FDA and EU compliant
- Highest potential ESD product (surface resistivity of $\leq 10^5$ Ohm/sq.)
- Pure black tone
- Easy to machine
- Laser-markable surface
- Cleaner work environment

Recommended applications

- Food and Pharmaceutical packaging
- Sliding and gliding strips
- Manifolds
- Valves
- Conveyor stars

Meet our globally compliant, electrically conductive UHME-PE for food contact applications

Is static electricity causing problems in your manufacturing environment? Do you need to ensure compliance in both the Americas and Europe? TIVAR® CleanStat™ EC is the answer for your food and pharmaceutical packaging applications. This globally compliant thermoplastic completes Mitsubishi Chemical Group's (MCG) electrostatic UHMW-PE offering and meets the essential food approval requirements for electrostatic machine components.

Solving compliance challenges for global food and pharma

Finding a material that meets both FDA and EU standards and all hygiene requirements has been a long-standing challenge within the food and pharmaceutical industries. With TIVAR® CleanStat™ EC UHMW-PE, MCG has developed a solution that can simplify your global logistics with just one product.

FDA- and EU-approved electrically conductive UHMW-PE

TIVAR® CleanStat™ EC is your choice for machine parts that must meet all compliance and special hygiene requirements for components in the production and packaging process. This ultra high molecular weight polyethylene provides clean surfaces and edges after machining, and is laser-markable. It is also chemically resistant to a wide range of cleaning agents and attracts less dust than standard ESD material due to its surface resistivity of $\leq 10^5$ Ohm/sq.

Availability

TIVAR® CleanStat™ EC UHMW-PE is available in plate and rod geometries with a wide range of dimensions. Contact one of our material selection experts for more information.

“TIVAR® CleanStat™ EC is our top choice for UHMW-PE ELS applications, especially in the pharma and food sectors. In most cases, these applications require FDA and EU 10/2011 approval. We were convinced by the deep black uniform finish and the achievable smooth surface when milling and turning this material.”

Marco Hilbring | CEO | TEPLAST Herbert Terbrack GmbH & Co. KG



Mitsubishi Chemical Group's UHMW-PE portfolio of ESD materials

ESD FAMILY	Surface resistivity	EU Food compliant	FDA compliant	Description
TIVAR® 1000 antistatic UHMW-PE TIVAR® ESD UHMW-PE*	$\leq 10^9$ Ohm/sq.	Yes	No	Stock standard
TIVAR® CleanStat™ UHMW-PE*	$\leq 10^8$ Ohm/sq.	Yes	Yes	
TIVAR® CleanStat™ White UHMW-PE*	$\leq 10^{10}$ Ohm/sq.	No	Yes	
TIVAR® CleanStat™ EC UHMW-PE	$\leq 10^5$ Ohm/sq.	Yes	Yes	Stock standard
TIVAR® Ceram P ESD UHMW-PE	$\leq 10^9$ Ohm/sq.	Yes	No	High wear-resistant grade
TIVAR® Sterra™ Dryslide UHMW-PE	$\leq 10^9$ Ohm/sq.	No	No	Low friction grade
TIVAR® Sterra™ ESD UHMW-PE	$\leq 10^9$ Ohm/sq.	No	No	Stock standard
TIVAR® ECO confetti black ESD UHMW-PE	$\leq 10^9$ Ohm/sq.	No	No	

* This product is ATEX compliant. ATEX conformity is currently being tested for TIVAR® Cleanstat™ EC UHMW-PE, TIVAR® Sterra™ ESD UHMW-PE and TIVAR® Sterra™ DrySlide UHMW-PE.

All statements, technical information, recommendations, and advice are for informational purposes only and are not intended and should not be construed as a warranty of any type or term of sale. 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 test and assess the suitability of the products of Mitsubishi Chemical Advanced Materials in any given application or for use in a finished device.

TIVAR® is a registered trademark of Mitsubishi Chemical Advanced Materials.

Design and content created by Mitsubishi Chemical Advanced Materials and protected by copyright law. Copyright © 2023 Mitsubishi Chemical Advanced Materials. All rights reserved.

Mitsubishi Chemical Advanced Materials NV
Galgenveldstraat 12
8700 Tielt, Belgium
T +32[0] 51 42 35 11

contact@mcam.com
mcam.com

