ENGINEERING DATA SHEET

DSM 3.0.7

UHMW-PE (Anti-Static) Sheet

General:

UHMW-PE (Ultra High Molecular Weight Polyethylene Sheet) offers a unique combination of wear resistance with low friction & impact strength combined with electrostatic dissipative properties.

Benefits:

The low coefficient of friction approaches that of Teflon® and can outperform polished stainless steel in moving difficult materials and mechanisms. The clean, self-lubricating surface allows moving parts, like belts & chains, including powdery or cohesive materials to move smoothly across its surface without premature wear. Key physical properties are retained up to -30° C.

Benefits:

- Limited (UV) weathering resistance.
- Difficult to bond. (Can be welded)
- Low service temp (melts easily).
- Low flame-retardant standards (UL94: HB).

Thickness:

3 – 25mm

ASM (DEK) Applications:

- Wear Guides
- The preferred DEK -ASM Colour is Black

These values are representative of the material. For critical applications, refer to Vendors Datasheet.

MECHANICAL PROPERTIES					
MATERIAL DETAILS	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:	UL No.
Tivar 1000 Anti-Static	**20 MPa**	**790 MPa**	**0.38**	**935 Kg/m^3**	**----**
UHMWPE 4152	**35 MPa**	**680 MPa**	**0.38**	**930 Kg/m^3**	

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com