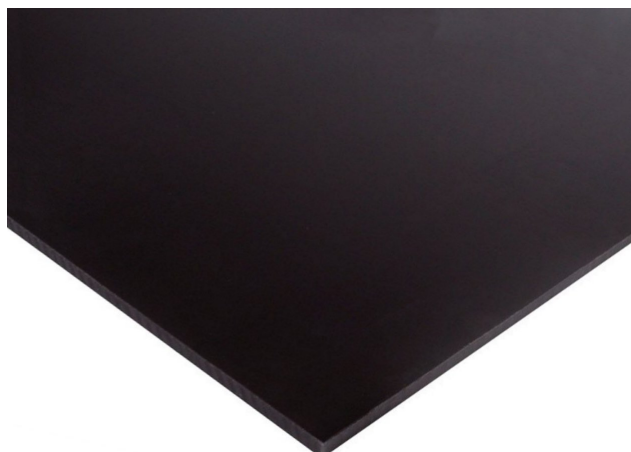




# Anti-Static UHMW

Electro Static Dissipative (ESD) UHMW



## Description and Overview

Anti-Static (UHMW-PE) is a self-lubricating sheet specially compounded to reduce the build-up of static electricity. Whether protecting a circuit board on an assembly line or controlling against a dust explosion at a grain mill, it keeps the product moving, and moving well. Anti-Static UHMW may move products safely in volatile environments and has a low coefficient of friction.

Anti-Static UHMW also exhibits the exceptional wear and impact resistance demanded by today's fast-paced industry.

## Applications and Uses

Anti-Static UHMW does not absorb moisture and its properties make it suitable for munitions plants, grain elevators, and other environments where dust and static electricity are a concern.

- Munitions plant components
- Grain handling facility components
- Explosive assembly facilities (i.e. airbags)
- Conveyor belt linings
- Pugmill paddles
- Dust collection hopper liners
- Robotics enclosures
- Belt scrapers
- Wear strips

## Properties and Specifications

Physical Properties		Polystone M	
Property	Units	ASTM Test	Anti-static
Density	gm/cm <sup>3</sup>	D792	0.93
Coefficient of friction 73°F on steel	Static	-	0.15-0.20
	Dynamic		0.10-0.20
Surface Resistivity	Ohms/cm	D257	10 <sup>4</sup> - 10 <sup>8</sup>
*Relative volumetric abrasion loss	*	*	100
Tensile strength at yield 70°F	psi	D638	3,100
Hardness 73°F	Shore	D785	D63 - 68
Coefficient of linear thermal expansion	1/K	D696	2.0 x 10 <sup>-4</sup>

Properties are typical.  
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.  
Mech is an abbreviation for mechanically affixed bonding.  
Field testing is recommended for any application.