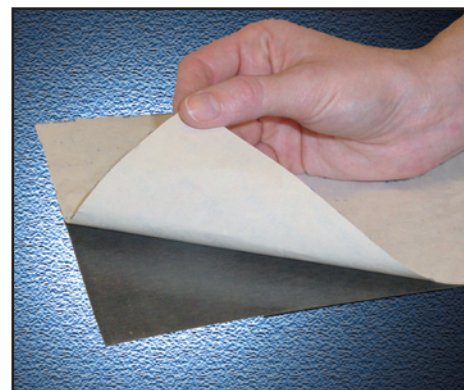


Fluor-Wear PTFE & UHMW-PE Sheet

Fluoron has in inventory, static-dissipative sheet of Teflon PTFE and UHMW-PE. The sheet is made with resin compounded with carbon which provides sufficient conductivity making it static-dissipative. Both of these sheet products are available either non-bondable, bondable one-side with epoxy adhesives, or pressure sensitive adhesive backing.

Pressure Sensitive Sheet provides easier installation in many applications in wood rooms and wood yards of pulp mills such as lining chutes, hoppers, conveyor beds and cone bottom silos. Hold-down bolting is eliminated, resulting in substantial savings in time and material.



Product Description	Teflon® PTFE	UHMW-PE
Color	Black	Black
Sheet Thickness	1/16"	1/16"
Sheet Width*	18 & 26.5"	Up to 24"
Lengths*	50-400'	50-400'
UV Light Resistance	Excellent	Very Good
Friction	Lowest coefficient of friction of any material	Low
Release Characteristics	Outstanding	Very Good
Chemical Resistance	Resistant to all acids, bases, and solvents	Excellent
Temperature Resistance	Up to 500°F	Up to 225°F
Abrasion Resistance	Fair It has 1/7 (14%) that of UHMW-PE	UHMW PE is the toughest of all plastics. The abrasion resistance of this polymer is equally impressive. In tests where specimens are rotated at 1,750 rpm (revolutions per minute) for 8 hours in 50% sand slurry, UHMW PE exhibits 10 times the abrasion resistance of carbon steel. This is more than double that of 6/6 polyamide and polyurethane and 80 times that of hard neoprene rubber. It is 3 times more abrasion resistant than the toughest elastomer, polyurethane.

* Widths can be butt welded to make any width and length desired

Physical Properties	ASTM	Fluoro-Wear 102 Teflon® PTFE	Fluoro-Wear 402 UHMW-PE
Tensile Strength (PSI)		2,000	3,000
Elongation (%)		200	125
Water Absorption (%)		-	0.01
Specific Gravity		2.15	0.93
Deformation (%) (2,000 psi, 6 hour, 122° F)		-	68
Deformation (%) (1,750 psi, 6 hour, 73°F)		8.5	-
Hardness Shore D	D2240	52	65-68
Coefficient of Static Friction against mild steel	D1894	.04	.15-.20
Coefficient of Dynamic Friction against polished steel	D1894	.10	.10-.22
Coefficient of Thermal Expansion (in/in/° F)		5.5x10 ⁻⁵	<1.1x10 ⁻⁴
Crystalline Melting Point (F°)		621	285



Fluoron, Inc. also manufactures large size tubing and heat shrinkable tubing of UHMW PE and Teflon®.



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