

CS Hyde Company

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PRODUCT INFORMATION

19-__F Series
.003" though .020"
UHMW –PE Film

Product Description:

UHMW-PE is one of the most versatile materials on the market today. It has a coefficient of friction that rivals Teflon but is 30 times more abrasion resistant. It has excellent chemical and impact resistance, which gives it countless applications in nearly every imaginable industry. It is ideal in handling issues concerning friction, wear, corrosion, sticking, sliding, surface protection, noise abatement and gliding.

PROPERTY	TEST METHOD	VALUE
Tensile strength (PSI)	ASTM-D 882	6000
Elongation (%)	ASTM-D 882	300
Water Absorption		0.01
Density (g/cc)		0.93
Heat Distortion (°F)	ISO R75 Method A	203
Deformation (%)	2000 psi, 6hr., 122°F	6-8
Dielectric Strength (V/mil)	ASTM-D 149	3000
Dissipation Factor	ASTM-D 150	0.0004
Coefficient of Thermal Expansion		$\sim 1.1 \times 10^{-4}$
Thermal Conductivity	(73°F)[BTUin]/(ft ² hr°F)	0.44

Product Thickness: Available in .003", .005", .010", and .020"

Product Width: Available in ¼" to 24" or in die cuts or custom parts.

Adhesive Options: Avery 8345 .005" thk. Rubber adhesive with 175 oz/in peel strength and temperature range 120°F – 175°F. Standard Adhesive, very aggressive, bonds well to metal, painted surfaces and many other low energy surface materials that require high tack.

Avery 1150 .002" thk. Acrylic transfer adhesive with temperature range of 225°F – 300°F. Excellent UV temp, moisture and chemical resistance. Very versatile.

Note: The above are "typical values" which have a nominal range about them and are not intended for specification purposes. Teflon® is a registered trademark of DuPont.