

# CS Hyde Company

39655 N IL Route 83  
Lake Villa, IL 60046  
Ph. 847-395-0325 Fax 847-395-0334  
[sales@cshyde.com](mailto:sales@cshyde.com) / [www.cshyde.com](http://www.cshyde.com)



## PRODUCT INFORMATION

**19-\_\_ F-BLK Series  
.005" though .020"  
1% Carbon Filled  
UHMW –PE Film**

### **Product Description:**

1% Carbon filled Conductive Black UHMW-PE material is ideal for applications that require abrasion resistance, low friction and electrical conductivity for static dissipation.

PROPERTY	TEST METHOD	VALUE
Tensile strength (PSI)	ASTM-D 882	3000
Elongation (%)	ASTM-D 882	125
Water Absorption		0.01
Specific Gravity/Density (g/cc)		0.9
Heat Distortion (°F)	ISO R75 Method A	203
Coefficient of Friction – Kinetic	2000 psi, 6hr., 122°F	.11 - .14
Surface Resistivity (Ohms/Square cm)	ASTM-D 257	<10 <sup>3</sup>
Coefficient of Thermal Expansion	(in.in/ °F)	~1.1x10 <sup>4</sup>
Thermal Conductivity	(73°F)[BTUin]/(ft <sup>2</sup> hr°F)	0.44

Product Thickness: Available in .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 75 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 1122 .002" thk. Acrylic transfer adhesive with temperature range of 250°F – 300°F. Excellent UV temp, moisture and chemical resistance. Very versatile.

\*The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes.