

CS Hyde Company

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PRODUCT INFORMATION

19-__R-BLK
1% Carbon filled Black
UHMW Film w/ Rubber
Adhesive

PRODUCT DESCRIPTION

1% Carbon filled anti-static/conductive Black UHMW-PE is a super tough, abrasion resistant material. It has a high-slip/non-stick surface similar to that of Teflon™ but UHMW can take eight times the abrasion than that of Teflon™ coated fiberglass and it is also very cost efficient. The UHMW film provides an excellent low friction, non-stick surface, in many ways similar to PTFE. The 19-R-BLK series is pressure sensitive with an aggressive Rubber adhesive. Very high level of conductivity with a surface resistivity of $10^2 - 10^3$, UHMW protects against static build up that occurs in powder conveying and dust collection.

APPLICATION INFORMATION

The 19-R-BLK series is used primarily in mechanical applications such as chute liners, wear pads, and guide rails. It can also be used in such applications as a glide surface for computer mouse. The Rubber adhesive is a 75 oz/in peel strength and a temperature range of 120°F to 175°F – very aggressive, bonds well to metal, painted surfaces and many other low surface energy material that require high tack.

TECHNICAL DATA

	Test Method	19-5R-BLK	19-10R-BLK	19-20R-BLK
Backing Thickness (in.)		.005	.010	.020
Adhesive Thickness (in.)			.005	
Adhesion			Rubber	
Peel Strength			75oz/inch	
Elongation (%)	ASTM-D 882		125	
Tensile Strength (psi)	ASTM-D 882		3000	
Water Absorption (%)			0.01	
Specific Gravity/Density (g/cc)			0.9	
Heat Distortion Temp (°F)	ISO R75 Method A		203	
Coefficient of Friction – Kinetic			.11-.14	
Surface Resistivity (ohms/Sq cm)	ASTM-D 257		<10 ³	
Coefficient of Thermal Expansion (in./in/°F)			~1.1 x 10 ⁴	
Thermal Conductivity (73°)[BTU* in) / (Ft ² * hr * °F)]			0.44	

Width: .25" up to 24"
Length: 18 (or) 36 yards

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