

LINQSTAT **XVCF-4S500**

Carbon filled polyethylene film



- 4 mil film
- Black color
- ± 500 ohms/sq Surface resistivity

LINQSTAT XVCF-4S500 is a highly conductive polyethylene film with a very high electrically conductive carbon loading and a dense polymer mix. Using a premium polymer and a refined process, we are able to increase the conductivity and thus reduce the surface resistance of the plastic to as low as ± 500 ohms/sq of surface resistance. This extra loading allows the film to be used in applications that require a lower resistivity. Volume resistivity, based on the thickness of the material is around 3.5 ohms-cm.

XVCF-4S500 conductive film is thin, lightweight and relatively inert. Furthermore, it is well suited for applications requiring electrochemical reactions, high conductivity or charge storage including but not limited to electrodes (ECG, TENS, Defibrillation and Iontophoresis), batteries (flat-cell zinc/manganese dioxide (MnO_2), Lithium Ion and Lithium polymer), wearable electronics and digital whiteboards.

Specifications

Property	Value	Unit
Color	Black	-
Chemistry Type	Carbon-Loaded PE	-
Film Thickness	101.6 (4)	um (mil)
Surface Resistivity	± 500	ohms/sq
Volume Resistivity	± 3.5	ohms-cm
Tensile Strength	13.5	mPa
Elongation	104	%
Melting Temperature	115-130	$^{\circ}\text{C}$
Thermal Conductivity	0.053	W/(mK)
Density	1.16	g/cm^3

Storage and Handling

Shelf life is 5 years if stored in a dry and cool, well ventilated place at room temperature.

The product is supplied in rolls and it's conductivity is unaffected by humidity and age. The film is heat sealable, flexible, and offers exceptional abrasion resistance.

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