

# LINQSTAT **XVCF-3S500**



## Carbon filled polyethylene film

- 3 mil film
- Black color
- $\pm 500$  ohms/sq Surface resistivity

**LINQSTAT XVCF-3S500** is a highly conductive polyethylene film with a very high electrically conductive carbon loading and a very 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  $\pm 200$  ohms/sq of surface resistance. This extra loading allows the film to be used in applications that require a lower resistivity.

**XVCF-3S500** 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<sub>2</sub>), Lithium Ion and Lithium polymer), wearable electronics and digital whiteboards.

### Specifications

Property	Value	Unit
Color	Black	-
Chemistry Type	Carbon-Loaded PE	-
Film Thickness	76.2 (3)	um (mil)
Surface Resistivity	$\pm 500$	ohms/sq
Volume Resistivity	$\pm 3.5$	ohms-cm
Tensile Strength	21.7	mPa
Elongation	103	%
Melting Temperature	115-130	°C
Thermal Conductivity	0.065	W/(mK)
Density	1.12	g/cm <sup>3</sup>

### 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 its conductivity is unaffected by humidity and age. The film is heat sealable, flexible, and offers exceptional abrasion resistance.

#### Europe

Industrieweg 15E,  
1566JN Assendelft  
The Netherlands  
Phone: +31 (20) 893 2224  
Email: [info@caplinq.com](mailto:info@caplinq.com)

#### Canada

80 Sirocco Crescent  
Ottawa ON, K2S 2C9  
Canada  
Phone: +1 (613) 482-2215  
Email: [info@caplinq.com](mailto:info@caplinq.com)



#### North America

36927 Schoolcraft Rd  
Livonia, MI 48150  
United States  
Phone: +1 (313) 558-8243  
Email: [info@caplinq.com](mailto:info@caplinq.com)

#### South East Asia

S-08-07 Persiaran Triangle  
B Lepas, Penang 11900  
Malaysia  
Phone: +60 (12) 4302223  
Email: [info@caplinq.com](mailto:info@caplinq.com)