

LINQSTAT **XVCF-3.5S200**

200 ohms/sq Conductive Film

- 3.5mil - 89um - 0.09mm
- ~200 ohms/sq Surface resistivity
- ~25 ohms-cm Volume resistivity



LINQSTAT XVCF-3.5S200 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 ± 200 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 25 ohms-cm.

XVCF-3.5S200 conductive films are thin (0.09mm or 3.5 mil), lightweight and relatively inert. Furthermore, they are 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 (MnO₂), Lithium Ion and Lithium polymer), wearable electronics and digital whiteboards.

XVCF-3.5S200 film and its conductivity are unaffected by humidity and age. The film is heat sealable, flexible and offers exceptional abrasion resistance. The film gives good thermal stability and has outstanding chemical resistance. This is one of the most conductive plastic films in our entire product line. Additionally, the film has been proven to be highly UV resistant, absorbing UV radiation at 365 nm up to 100%.

Property	Value
Chemistry	Carbon loaded Polyethylene
Thickness	0.09mm
Specific Gravity	1.16
Water absorption	0.53%

Property	Value
Surface resistivity	200 ohms/sq
Volume resistivity	TBD
Thermal Conductivity	0.053 W/mK
Elongation	7.3%

Storage and Handling

LINQSTAT™ XVCF-Series is supplied in rolls and should be kept in a cool (10°C – 25°C) dry place (40% – 75% humidity) away from direct sunlight or temperature extremes. Once removed from packaging it should be protected against dust and other impurities. For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS)

The data contained herein may be reported as a typical value and/or range values based on actual test data and are verified on a periodic basis.

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