

LINQSTAT **XVCF-XS50P**

Carbon filled polyurethane film



- ± 2.6 mil film
- Black color
- ±50 ohms/sq Surface resistivity

LINQSTAT XVCF-XS50P stands out among conductive plastic films, offering exceptional electrical conductivity. This is achieved through a combination of high carbon and graphene loading, and a dense surrounding polymer matrix. It has a wide operating temperature of -10°C up to 120°C and its melting temperature is around 160-180°C. Compared to polyethylene films, the polyurethane films have superior resistance to different solvents, temperature fluctuations, and oxidation.

XVCF-XS50P is thin, lightweight and inert conductive film making it is ideal for a wide range of 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.

Specifications

Property	Value	Unit
Color	Black	-
Chemistry Type	Carbon-Graphene Loaded PU	-
Film Thickness	66 ±5 (2.6)	um (mil)
Square Resistivity (cm ²)	20-25	ohms
Surface Resistivity	40 ±10	ohms/cm
Tensile Strength	TD: 13.54 MD: 13.42	mPa
Elongation	TD: 109 MD: 108	%
Melting Temperature	170 ±10	°C
Thermal Conductivity	0.054	W/(mK)
Density	1.36	g/cm ³

Storage and Handling

Shelf life is 3 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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