

Linqstat™ Conductive films



INTRODUCTION

CAPLINQ offers a range of carbon loaded polyethylene (PE) based LINQSTAT-branded electrically conductive and antistatic plastic film. Our electrically conductive plastics start from a surface resistivity of less than 200,000 ohm-per-square and can go as low as 200 ohms-per-square.

LINQSTAT™ VCF, MVCF- and XVCF-Series electrically conductive plastic sheeting is a black, carbon-filled, volume-conductive polyethylene film designed to provide both physical and static protection in numerous semiconductor, electronics, and Smartcard applications. The different grade of materials allows users to cover a wide range of possible applications.

To complement the LINQSTAT Series Caplinq offers a selection of copper and aluminum tapes with conductive adhesive that can be used in portotyping and test setups. Under the LINQTAPE brandname Caplinq also offers a selection of polyimide films and tapes covered with antistatic and conductive layers.



APPLICATIONS

A common application of the conductive polyethylene is as a pressure sensor. The Linqstat MVCF films can be used as a weak pressure sensor making it useful for applications that have large surface areas and expect large pressure applications. The Linqstat XVCF films are used for more sensitive pressure sensor applications.

The Linqstat polyethylene and polyimide films can also be used as an antistatic packaging plastic, as an antistatic interleaver for smartcard (micromodule) applications. Its antistatic properties make the Linqstat films also well suited for EMI and RF shielding applications.

A special application of the polyimide films with a conductive layer of aluminum is in multilayer insulation blankets in space and aircrafts.



PRODUCT OVERVIEW

ANTISTATIC & LOW LEVEL CONDUCTIVITY

PRODUCT DESCRIPTION	SURFACE RESISTIVITY	THICKNESS	VOLUME RESISTANCE
Linqstat VCF Series			
VCF-2S200K	<200,000 ohms/square	0.05mm (2 mil)	Not volume conductive
VCF-4S200K	<200,000 ohms/square	0.1 mm (4 mil)	Not volume conductive
VCF-8S200K	<200,000 ohms/square	0.2mm (8 mil)	Not volume conductive
VCF-3S100K (Smartcard Interleaver)	<100,000 ohms/square	0.075mm (3 mil)	Not volume conductive
VCF-4S100K (Smartcard Interleaver)			
Linqtape Antistatic Tapes & Films			
PIT1S-ESD/PIT1A-ESD (Antistatic Polyimide Tape)	N/A	0.025mm (1 mil)	2,500,000,000 ohms

MID LEVEL CONDUCTIVITY

PRODUCT DESCRIPTION	SURFACE RESISTIVITY	THICKNESS	VOLUME RESISTANCE
Linqstat MVCF Series			
MVCF-8S50K	<50,000 ohms/square	0.2mm (8 mil)	2,000 ohms
MVCF-4S50K	<50,000 ohms/square	0.1 mm (4 mil)	800 ohms
MVCF-8S10K	<10,000 ohms/square	0.2mm (8 mil)	Not volume conductive

HIGH LEVEL CONDUCTIVITY

PRODUCT DESCRIPTION	SURFACE RESISTIVITY	THICKNESS	VOLUME RESISTANCE
Linqstat XVCF Series			
XVCF-4S500	<500 ohms/square	0.1mm (4 mil)	100 ohms
XVCF-3S500	<500 ohms/square	0.075mm (3 mil)	50 ohms
XVCF-3.5S200	<200 ohms/square	0.089mm (3.5 mil)	25 ohms
XVCF 150 and lower			
Linqtape Conductive Tapes & Films			
PIT1N-ALUM (Aluminized Polyimide Film)	>3 ohms/square	0.025mm (1 mil)	N/A
CFT1CA (Copper Tape)	>1.5 ohms/square	0.035mm (1.4 mil)	N/A
AFT2CA (Aluminum Tape)	>3 ohms/square	0.05mm (2 mil)	N/A

The above figures are typical material properties only and are not to be used for product specification purposes. To generate a specification for this product, please contact our Quality Manager and request a copy of the current stock specification. The information and recommendations supplied in this document are believed to be accurate but no guarantee of their accuracy is made; they are for guidance only and should not be construed as a warranty. All implied warranties are expressly disclaimed, including without limitations any warranty of merchantability and fitness for use. It is recommended that purchasers before using this product conduct their own tests to determine whether the product is suitable for their particular purposes under their own operating conditions.



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