



Technical Data Sheet LINQSTAT™ VCF-Series

Black Volume-Conductive Polyethylene Film – December 2009

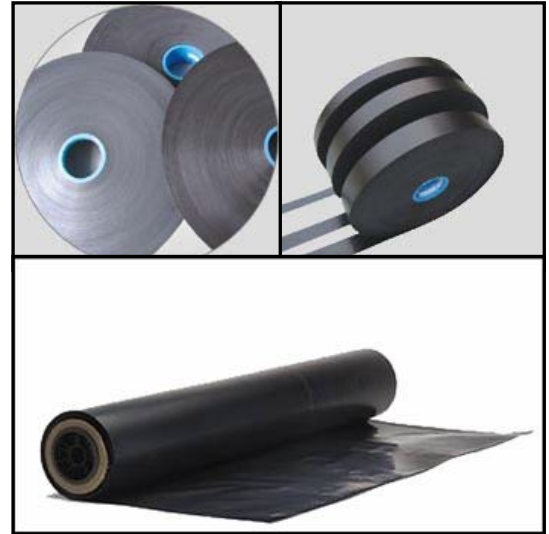
Product Description

LINQSTAT™ VCF-Series is a black, carbon-filled, volume-conductive polyethylene film designed to provide both physical and static protection in numerous semiconductor, electronics, and Smartcard applications. Its easy-grounding nature makes it ideal for packaging where electrostatic contamination is a problem.

The 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. The conductive bags meet electrical requirements of the military specification MIL-P-82646A.

LINQSTAT has a standard thickness range from 65µm to 200µm (0.0025" to 0.008") and is available in sheeting, tubing, V-fold and C-fold versions. Roll lengths and widths vary depending on thickness and application. Other variations may be available.



Applications:

- Protection and storage of static-sensitive components
- Interleaf between rolls of Smartcard modules
- Grounding Mats

Product Features & Benefits:

- Volume-conductive plastic
- Black Opaque - Printable
- Provides Anti-Static protection to electronics components
- Groundable
- Humidity independent conductivity
- Meets military specification MIL-P-82646A

Chemical Susceptibility:

- Methanol: Resistant
- Ethanol: Resistant
- Isopropanol: Resistant
- Weak Acids: Resistant
- Ketones (Acetone): Slow Attack
- Weak Alkalines: Slow Attack
- Hydrocarbons: Non-Resistant

Electrical Properties	Unit	Typical Value	Test Method
Volume (Bulk) Resistivity	ohm-cm	< 500	ASTM-D991
Volume (Bulk) Conductivity	S/cm	>0.002	ASTM-D991
Sheet (Surface) Resistivity (Thickness Dependent)			
2mil (VCF-2xxxx Series)	ohms/square	< 100,000	MIL 81705C Type II Class I
4mil (VCF-4xxxx Series)	ohms/square	< 31,000	MIL 81705C Type II Class I
8mil (VCF-4xxxx Series)	ohms/square	< 25,000	MIL 81705C Type II Class I
Electrostatic Decay	seconds	< 2.0	EIA – Std 541
Physical Properties	Unit	Typical Value	Test Method
Tensile strength	MPa	13.8	ASTM-D882
Elongation			
Machine Direction		330%	ASTM-D882
Transverse Direction		390%	ASTM-D882
Dart Impact Test			ASTM D1709-67
50% Failure Weight	grams	390+/-10	Method B
Heat Seal Strength (% of Tensile Strength)			
Machine Direction		96%	ASTM-D882
Transverse Direction		82%	ASTM-D882

The above figures are typical material properties only and are not to be used for material specification purposes. To generate a specification for this product, please contact our Quality Manager and request a copy of the current stock specification.

NOT FOR PRODUCT SPECIFICATIONS. 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.

Standard Product Sizes Available:

LINQSTAT™ VCF-Series is available in the following standard size ranges. Other sizes are available upon request.

DESCRIPTION	THICKNESS	WIDTH	LENGTH
LINQSTAT Black Conductive Tubing	100µm (0.004")	127mm (5") to 254mm (10")	46m (150') to 152m (500')
LINQSTAT Black Conductive Sheeting	100µm (0.004") to 200µm (0.008")	35mm (1 ³ / ₈ ") to 1829mm (72")	46m (150') to 457m (656')
LINQSTAT Black Conductive V-Sheet	100µm (0.004") to 150µm (0.006")	1143mm (45") to 1829mm (72")	46m (150') to 229m (750')

Storage and Handling

LINQSTAT™ VCF-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.

Data Ranges

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.

Datasheet December 2009

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