



inspire®

z-flo®

PRODUCT GUIDE CONDUCTIVE FILMS

PRODUCT DESCRIPTION

Manufacturers around the world trust Coveris Advanced Coatings to deliver high-performance conductive films. Lightweight, low-cost and high performing, our carbon-filled polymeric films, with or without additional silver coatings, exhibit high conductivity, won't flake and are unaffected by humidity. All of these conductive films provide 'through' conductivity, or conductivity in the z-direction.

Their precise coating, uniform surface conductivity, and 'through conductivity', make our films ideal for use in a variety of compact and lightweight medical diagnostics and treatment devices. Applications include electrodes for patient monitoring, defibrillation, muscle stimulation, transdermal drug delivery and use in other diagnostic, devices where z-direction conductivity is required

- **Conductive Films For Stimulator Electrodes:** Vinyl and silver coated vinyl.
Conductive Films for Transcutaneous electrical nerve stimulation (TENS) and neuromuscular electrical stimulation (NMES) for back pain, strains, muscle pull.
- **Conductive Films For Defibrillator Electrodes:** Silver/silver chloride coated vinyl.
Conductive Films used in patches applied to patients.
- **Conductive Films For Monitoring Electrodes:** Vinyl and silver-coated vinyl.
Conductive Films for EKG, EEG and other medical monitoring vinyl.
- **Conductive Films For Iontophoresis Electrodes:** Vinyl and silver-coated vinyl.
Conductive Films for use in transdermal drug delivery applications such as used by physical therapists for the application of anti- inflammatory medications.

COVERIS™
ADVANCED COATINGS

PRODUCT	Silver Layers per Side	Sides Coated	Total Caliper	Resistivity at 24°C	Basis Weight	Tensile Strength	Elongation at Break	Storage Module at 25°C	Shrinkage	Tg Temperature	Shelf Life (conductivity)
Reference			T6139	T-1178	TAPPI-410	T-0432	T-0432	DMA	T-0431	ASTM-D3418	
VINYLS (Can be provided as free conductive film or on a release paper)											
2267	NA	NA	2.3mils 58μ	<95 ohms/sq	71.90g/m ²	>7.30 lbs	>123%	4.08 (x10 ⁸ Pa)	<4%@150°C	-9°C	1 year
2252	NA	NA	4.0mil 102μ	<65 ohms/sq	124.06g/m ²	>10.5 lbs	>134%	4.83 (x10 ⁸ Pa)	<3.9%@150°C	-10°C	1 year
SILVER COATING (Can be provided as free conductive film or on a release paper)											
4201	1	1	2.7mil 69μ	<1.5 ohm/sq	117.30g/m ²	>8.06 lbs	44.57%	7.14 (x10 ⁸ Pa)	<2.9%@150°C	-12°C	1 year
4204	1	1	2.6mils 66μ	<1.8 ohm/sq	87.07g/m ²	>7.52 lbs	117.65%	6.44 (x10 ⁸ Pa)	<3%@150°C	-10°C	1 year
4206	1	1	2.3mils 58μ	<25 ohms/sq	74.46g/m ²	>7.84lbs	148.17%	6.81 (x10 ⁸ Pa)	<3.2%@150°C	-9°C	1 year
4401	1	1	4.1mils 104μ	<2 ohms/sq	143.31g/m ²	>12.26 lbs	209.38%	6.85 (x10 ⁸ Pa)	2.6%@150°C	-9°C	1 year
4402	1	1	4.0mils 102μ	<1 ohms/sq	134.30g/m ²	14.6lbs	103.35%	9.13 (x10 ⁸ Pa)	<5.1%@150°C	-11°C	1 year
SILVER/SILVER CHLORIDE (Can be provided as free conductive film or on a release paper)											
6351	2	1	2.6mils 66μ	<10 ohms/sq	113g/m ²	8.62 lbs	115.58%	7.6 (x10 ⁸ Pa)	<2.5%@150°C	-14°C	1 year
6355	2	1	2.7mil 69μ	<10 ohms/sq	87.25g/m ²	>9.0 lbs	≥71.5%	NA	<3%&@150°C	20.4°C	1 year
6402	2	1	4.1mils 104μ	<10 ohms/sq (1"x 9")	127.68g/m ²	>12.5 lbs	≥98.5%	NA	<4%&@150°C	13.0°C	1 year
6403*	2	2	5.2mil 132μ	<10 ohms/sq (1"x 9")	181.97g/m ²	>14.0 lbs	≥100%	61,000 lbs/in ²	<2%&@150°C	11°C	1 year
6404	2	1	4.12mil 103μ	<150 ohms	139.77g/m ²	>13.0 lbs	≥80%	49,312 lbs/in ²	<4%@150°C	6.6°C	1 year
SILVER CHLORIDE (Can be provided as free conductive film or on a release paper)											
8201	1	1	2.2mils 56mic	<180 ohms/sq	60.16g/m ²	>6.0 lbs	≥70%	67,000 lbs/in ²	<4%@150°C	10°C	1 year
8403	1	1	4.2mils 107mic	<100 ohms/sq	125.0g/m ²	>14.5 lbs	≥65.0%	60,915 lbs/in ²	<4%@150°C	13.9°C	1 year

*6403 cannot be provided on release paper as it is coated on both sides

Although every effort has been made to supply reliable data, the values are for guidance purposes only and do not constitute a specification. Each user must make their own tests to determine the suitability of the material for their own use.

CONTACT

UK Site: +44 1978 660241, Coveris Advanced Coatings, Ash Road North, Wrexham Industrial Estate, Wrexham, LL13 9UF

USA Site: +1 704 847 9171, Coveris Advanced Coatings, 700 Crestdale Street, Matthews, NC 28105

USA Digital Imaging Site: (413) 539 5547, Coveris Advanced Coatings, 69 Williams Franks Drive, West Springfield MA01089

CHINA Site: +86 20 3221 8338 Coveris Advanced Coatings, Guangzhou Co Ltd, 7 Nanyun 5th Road 1/F, Luogang Dist Guangzhou 510663

EMAIL: enquiries@coveris.com

WEBSITE: www.coverisadvancedcoatings.com

