



MATERIALS SAMPLE PREPARATION & CHARACTERISATION

-
- Conductive Adhesives L 04

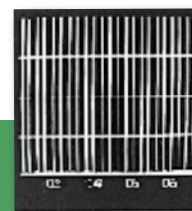
Conductive Adhesives

CONDUCTIVE DOUBLE SIDED ADHESIVE SHEETS

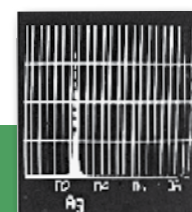
These double sided adhesive, electrically conductive sheets were specially developed for attaching samples to be examined by SEM and/or EDS. Use Silver, for its higher conductivity, for straight SEM work. Use Carbon for EDS work where it is important to eliminate the X-rays from the substrate.

Both Silver and Carbon adhesives have these advantages:

- Enable the mounting of samples without contamination from either Silver Paint or Carbon Paint.
- Enable the mounting of highly porous or other absorbent samples without distortion caused by liquid being pulled into the sample.
- Provide good conductivity.
- These conductive adhesives are both available in sheet form (Ag and C) and roll form (C only). Additionally, the sheets are available as "large sheets" for applications outside the general SEM area.
- UHV "compatible" to the extent that samples can be mounted for examination by Field Emission SEM, FE-SEM and XPS.



EDS Scan of Carbon Sheets



EDS Scan of Silver Sheets

PRODUCT	SIZE & PACKAGING	P/N
Carbon Conductive Double Sided Adhesive Sheets	50 mm x 120 mm, 0.16 mm thick adhesive layer, 10 sheets per pkg	05071-AB
	500 mm x 500 mm, 0.16 mm thick adhesive layer, 1 sheet per pkg	05080A-AB
Silver Conductive Double Sided Adhesive Sheets	50 mm x 120 mm, 0.13 mm thick adhesive layer, 5 sheets per pkg	05070-AB

ADHESIVE TAPES

3M® COPPER CONDUCTING TAPES

These fine tapes consist of a specially developed conductive adhesive, applied to high purity, thin Copper foil for fastening samples of varying shapes and sizes to SEM mounts.

These tapes are available in two forms, single sided adhesive and double sided adhesive and in addition, are also available in a nice variety of different widths for different size SEM mounts.

CONDUCTIVE DOUBLE SIDED CARBON ADHESIVE TAPE

These double sided adhesive, electrically conductive tapes were specially developed to attach samples to be examined by SEM and/or EDS. A conductive Carbon based product is recommended for EDS work where it is important to eliminate the rays coming into the detector from the substrate.



ORDERING INFORMATION

PRODUCT	WIDTH mm (inch)	LENGTH (m)	P/N
3M® Copper Conducting Tapes:			
- Single Sided Adhesive Copper Conducting Tape, 3M® Code 1181	6.35 (1/4")	16.45	05012-AB
	12.5 (1/2")	16.45	05012A-AB
	25.4 (1")	16.45	05012B-AB
	50.8 (2")	16.45	05012C-AB
	76.2 (3")	16.45	05012D-AB
	203.2 (8")	16.45	05012E-AB
- Double Sided Adhesive Copper Conducting Tape, 3M® Code 1182	6.35 (1/4")	16.45	05085-AB
	12.5 (1/2")	16.45	05085A-AB
	25.4 (1")	16.45	05085B-AB
	50.8 (2")	16.45	05085C-AB
	76.2 (3")	16.45	05085D-AB
Conductive Double Sided Carbon Adhesive Tape	6	20	05081-AB
	8	20	05072-AB
	12	20	05082-AB
	25	20	05076-AB
	50	20	05083-AB

ADHESIVE DISCS AND TABS

DIE-CUT CARBON CONDUCTIVE DOUBLE SIDED ADHESIVE DISCS

The double sided adhesive Carbon filled conductive discs combine both high purity and an almost coverglass smoothness to the sticky surface. In addition, the die-cut discs bring a high level of convenience to the SEM user who can order discs of the precise size needed for their respective SEM mounts. Furthermore, one will never see a static charge on the discs which makes for easy mounting of dry powders.

Double sided adhesive Carbon discs,
12 mm diameter

DIE-CUT NONCONDUCTIVE DOUBLE SIDED ADHESIVE DISCS

These are specially made double sided adhesive tabs, made from a material ideally suited for the mounting of samples for AFM (atomic force microscopy) and certain specialized SEM studies where a nonconductive substrate is desired.

ORDERING INFORMATION

PRODUCT	Ø OF DISC	# DISCS/PKG	P/N
Die-Cut Carbon Conductive Double Sided Adhesive Discs - For SEM, ESD, and other analytical applications - UltraSmooth™ Carbon Discs	9 mm	440	05073-BA
	12 mm	240	05077-BA
	25 mm	80	05074-BA
	9 mm	100	04966-BA
	12 mm	100	04967-BA
	25 mm	54	04968-BA
Die-Cut Nonconductive Double Sided Adhesive Discs	10 mm	2592	05095-AB



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