



GENERAL INFORMATION

Offering users consistent adhesion and improved clarity, ADVANTEK AB Cover Tape is a low-cost alternative to other heat activated cover tapes, yet still delivers highly desirable results.

AB Cover Tape was developed in order to meet market needs for a low-cost, high quality cover tape. Designed, patented and manufactured by ADVANTEK, AB delivers results at a savings of over 10% when compared to existing cover tapes. Additionally, when used in conjunction with ADVANTEK Carrier Tapes, LOKREEL® packaging reels and Static Shielding / Moisture Barrier Bags, AB completes ADVANTEK's line of products and provides a complete package for surface mount components.

Type AB Cover Tape complies with industry standards set forth in EIA-481 and has been proven to perform with the following ADVANTEK Carrier Tape materials:

- Types C, X, V & T Static Dissipative Polystyrene
- Types J, K, L & O Homogenous Polystyrene

Construction

Type AB Cover Tape is constructed in two layers. The first layer is a 0.0010" thick polyester base film. The second is a 0.0011" thick heat activated adhesive coating layer. Both the top and bottom layers are antistatic to ensure the protection of static sensitive devices.



Type AB® Heat Activated Antistatic Cover Tape Clarity

Improvement of cover tape clarity was a driving force behind the development of AB. The construction method employed by ADVANTEK results in a smooth adhesive finish. This smoothness refracts little light, greatly enhancing the transparency and clarity of AB. These features improve the user's ability to conduct post-taping in-pocket inspection of components.

Configurations

Type AB Heat Activated Cover Tape is provided with 300 meters splice-free on a 3" inner diameter plastic core. Widths available include all EIA standard widths for carrier tapes between 8mm and 120mm. Additional widths may be available by special request.

Part Number	Width
AB10054	5.4mm +/- 0.10
AB10092	9.2mm +/- 0.10
AB10133	13.3mm +/- 0.10
AB10210	21.0mm +/- 0.10
AB10255	25.5mm +/- 0.10

Part Number	Width
AB10375	37.5mm +/- 0.10
AB10495	49.5mm +/- 0.10
AB10655	65.5mm +/- 0.15
AB10815	81.5mm +/- 0.15
AB11135	113.5mm +/- 0.20

Recommended Sealing Conditions

The following equipment settings are recommended for optimum performance of Type AB Cover Tape in single-strike seal mode:

Temperature	170° - 200°C
Dwell Time	0.2 - 0.5 sec.
Pressure	30 - 35 PSI
Seal Rail Width	0.015 - 0.020" (0.38 - 0.51mm)

Shelf Life/Storage Conditions

Type AB Cover Tape has a shelf life of 24 months from the date of manufacture when stored under the recommended storage conditions. ADVANTEK recommends storing this product in its original packaging in a climate controlled environment with temperatures between 19° C and 40° C (66° - 104°F) and relative humidity under 80%. Exceeding these recommended storage conditions could result in inconsistent product performance.



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Material Properties

Property	Typical Value	Test Method/Standard
Adhesion to Carrier	50 +/- 20 grams ¹	EIA-481-B
Surface Resistivity	<10 ¹² ≥ 10 ⁵ ohms/square (both sides)	ASTM D-257
Tribo-electric Potential	50 volts max	Advantek RS481-A
Tensile Strength	11,000 PSI	ASTM D-882
Elongation	120 - 140%	ASTM D-882
Transparency	93% Transmittance 72% Clarity 27% Haze	ASTM D-1003
Color	Natural, non-pigmented	
Standard Roll	3 inch I.D. core, 300 meters	

Note: The values presented for this product are typical laboratory data and may be changed without notice.
¹Tests performed under specific sealing conditions.

Material Ionics Data

Species	AB Cover Tape (ppm)
Fluoride	ND
Chloride	7.9
Nitrite	ND
Bromide	ND
Nitrate	13.25
Phosphate	1.91
Sulfate	2.55
Lithium	ND
Sodium	3.95
Ammonium	ND
Potassium	ND
Magnesium	0.51
Calcium	5.09

Note: The above ionics data was measured by an independent laboratory.