

C-PAK TYPE CP99 COVER TAPE



Description :

C-PAK TYPE CP99 cover tape is a transparent and tinted polyester film with static dissipative properties on both sides and heat sealable over a wide range of temperatures, thus making it immensely suitable for carrier tapes made of polystyrene.

The adhesive system is specially developed for tight range in seal strength, as an addition to its stable seal strength.

Construction: 0.0254 mm Polyester film (Polyethylene Terephthalate)
0.0254 mm Heat Activated Adhesive

GENERAL PROPERTIES (Typical value)		
	METHOD	VALUE
Tensile Strength	ASTM D-882	7.75 kg/ mm ²
Elongation	ASTM D-882	120 %
Luminous Transmittance	ASTM D-1003	86 %
Haze	ASTM D-1003	27%
Surface Resistance Surface Resistivity (Top and Adhesive sides of cover tape)	ASTM D-257	10 ¹⁰ Ohms 10 ¹¹ Ohms/sq
Static Decay 5kv	EIA541	Less than 0.1 sec

Peel Strength Limit (<i>see recommended sealing parameters</i>)		50+/- 30g (20g to 80g)	
Base Material		POLYESTER	
Dimensions:			
Width (mm)		5.3, 5.4, 5.5, 9.1, 9.2, 9.3, 13.1, 13.2, 13.3, 21.0, 21.3, 25.5, 37.5, 49.5, 65.5 and 81.5 (Other widths are available)	
Width Tolerance	For width	(5.3, 5.4, 5.5, 9.1, 9.2, 9.3, 13.1, 13.2, 13.3, 21.0, 21.3, 25.5, 37.5, 49.5)	± 0.1 mm
	For width	(65.5 and 81.5)	± 0.15 mm
Thickness		(0.050 ± 0.010)	0.040 to 0.060 mm
Length		300 m or 500 m	

Standard Roll

CP99 is wound on a 3” plastic core in all standard widths. Splice free rolls are available in 300M lengths. Custom widths and lengths are available upon request.

Color : Transparent Pink Film *

(Slight variations which do not affect product performance are normal)

Shelf Life

CP99 cover tapes should be stored at controlled environment. The optimum conditions defined below will yield a shelf life of 24 months from the manufacturing date found on the core label and ensure the maximum service life of the product .

Storage temperature : 19°C to 40°C

Relative humidity : 50% RH +/-30 %.

Avoid excessive heat.

Recommended sealing temperature as follows (see Notes):

Number of sealing overlaps	Sealing Temperature °C
3x	145 to 160
4x	135 to 155
6x	130 to 150

Other Recommended Sealing Parameters (see Notes):

Sealing Shoe Width x length: 0.018” x 1.9” (0.457x 48mm)

Sealing time : 0.3 sec

Pressure: 30 psi

Sealing Mode: Reciprocating

Peel Test Speed during peeling: 300mm ± 10mm per minute

Angle of pull test: Between 165 to 180 degrees

Test Notes:

1. The recommended sealing parameters are based on embossed Cpak's carrier tape material made of Polystyrene. The sealing parameters for other compatible carrier tape materials are available upon request.
2. Positioning the seal bead away from the slit edge of cover tape will keep adhesive from being forced out from the edge. Seal bead should remain away from the edge of tape to minimize potential breakage of the film. Use of a narrow seal width 0.015"(0.4mm) to 0.020"(0.5mm) gives more control over the position in which the seal is placed relative to the carrier tape pocket, sprocket holes and slit edge of the cover tape.
3. Tensile tests are conducted at aircon room 25°C +/- 3, 50%+/-15 %RH, in the machine direction of the cover tape (Specimen width is 21mm).
4. Optical properties are measured using light transmittance equipment.
5. Surface Resistance / Resistivity is measured at 25+/- 3°C, 45 to 50% RH.

Top resistance specifications: 1E+4 to 9.9E+10 ohms (1×10^4 to 9.9×10^{10} Ohms)

Top resistivity specifications: 1E+5 to 9.9E+11 ohms/sq (1×10^5 to 9.9×10^{11} Ohms/sq)

Adhesive resistance specifications: 1E+4 to 9.9E+10 ohms (1×10^4 to 9.9×10^{10} Ohms)

Top resistivity specifications: 1E+5 to 9.9E+11 ohms/sq (1×10^5 to 9.9×10^{11} Ohms/sq)

Equipment used for measurement: Monroe Model 272 Resistance/Resistivity Meter

Important Notice

Please note that technical information and recommendations related to C-pak products are based on information believed to be reliable. Before using this product, please evaluate it and verify to determine if it is suitable for your intended application. Since the manner of use is beyond our control, C-pak does not make nor does it authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to C-pak material properties.

The data presented here is intended for product selection purposes only. C-pak reserves the right to improve and enhance the features and specifications of these products. This data is provided for informational purposes only. Please contact C-pak to determine the current product matching your specific requirements.