

**C-PAK TYPE CP21 COVER TAPE**

C-PAK TYPE CP21 cover tape is a transparent polyester film with static dissipative properties on both sides and heat sealable over a wide range of temperatures, thus making it immensely suitable for different materials of carrier tape.

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

Construction: 0.012mm Polyester film  
 0.020mm PE Layer  
 0.030mm Sealant Hot Melt Layer

| <b>GENERAL PROPERTIES (Typical value)</b>                |    |               |  |
|--|----|---------------|--|
|  |    | <u>METHOD</u> | <u>VALUE</u>   |
| Tensile Breaking Force                                   | MD | JIS-K-7127    | 4.5 – 7.0 kg/ mm <sup>2</sup>                                      |
|  | TD |               | 4.5 – 6.5 kg/ mm <sup>2</sup>                                      |
| Elongation   | MD | JIS-K-7127    | 80-120%  |
|  | TD |               | 65-110%  |
| Total Light Transmittance                                |    | JIS-K-6714    | 75%  |
| Haziness   |    |               | 40-70%   |
| Tear Force   | MD | JIS-K-7128    | 10-14.5 kg/mm  |
|  | TD |               | 8-13 kg/mm   |
| Surface Resistivity (both sides)                         |    | JIS-K-6911    | ≤ 10 <sup>11</sup> Ohms/ sq  |
| Peel Strength Limit (see recommended sealing parameters) |    |               | 20g to 80g   |
| Width (mm)   |    |               | 5.3, 5.5, 9.1, 9.3, 13.1, 13.3, 21.0, 21.3, 25.5, 26.5, 37.5, 49.5 |
| Width Tolerance  |    |               | ± 0.1 mm   |
| Thickness  |    |               | 0.055 to 0.069 mm  |
| Length   |    |               | 300 m  |
| Base Material  |    |               | POLYESTER  |

Shelf Life

Best if used within 24 months. Store at controlled room temperature environment 25±3°C and relative humidity of 40~80 %. Cover tape should be packed in plastic bag/ carton box with no direct air-con blowing.

Recommended sealing temperature as follows:

| Number of sealing overlaps | Sealing Temperature °C |
|----------------------------|------------------------|
| 1x                         | 190 to 200             |
| 2x                         | 175 to 190             |
| 3x                         | 165 to 180             |
| 4x                         | 160 to 190             |
| 6x                         | 135 to 145             |

Other Recommended Sealing Parameters:

Sealing Shoe Width x length: 0.025" x 1.9" (0.635x 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

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 (0.020" – 0.025") 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.