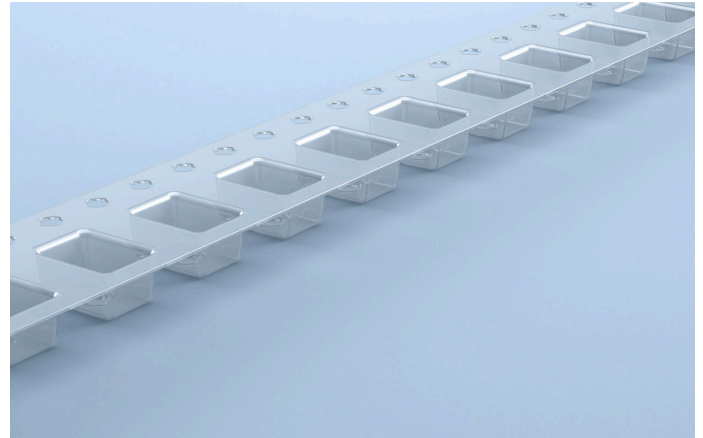**CARRIER TAPE MATERIAL**

# Polycarbonate Clear Insulative Y-Series

Advantek's premier Y-Series clear polycarbonate material provides excellent forming performance and strength. This clear isulative material is ideal for passive and mechanical components which are not ESD sensitive. The material's high transparency enables easy in-pocket component inspection, while its uniform surface texture provides a consistently flat sealing area.

> Engineering for versitility and strength to support a wide range of pocket sizes and shapes
> Available in 8mm and 12mm wide
> All Advantek carrier tape is manufactured in accordance with EIA standards to ensure compatibility with tape and reel equipment

## Material Properties

| Property | Value | Test Method |
|---|---|---|
| Material Code - Thickness | YF - 0.21mm<br>YE - 0.23mm<br>YB - 0.25mm | - |
| Specific Gravity | 1.20 g/cc | ISO 1183 |
| Tensile Stress, Yield | 65 MPa | ISO 527 |
| Tensile Strain, Break | 70 MPa | ISO 527 |
| Flexural Strength | 98 MPa | ISO 527 |
| Heat Distorion | 141°C  (286°F) | ISO 75 |
| Surface Resistivity | 10E15  Ohms/sq | IEC 60093 |
| Color | Clear | - |

Note: The values presented for this product are typcial laboratory data and may be changed without notice.

## Shelf Life and Storage

We recommend that Advantek Polycarbonate carrier tapes be used within 5 years of the date of manufacture. Store this product in its original packaging in a climate controlled environment at less than 60° C (140° F). This product is not affected by humidity. Allow the product to stabilize at room temperature prior to use.

## Camber

The Advantek Polycarbonate carrier tape meets the EIA-481 standard for camber that is not greater than 1mm in 250 linear milimeters. For 8mm carrier tape in the level wind format, the camber will not be greater than 2mm in 250 linear millimeters.

## Cover Tape Compatibility

| Type | Heat Activated | | | | | | | | Pressure Activated | |
|---|---|---|---|---|---|---|---|---|---|---|
| Material | HUB | HUC | HUD | HUE | HUF | AA | AD | AD1 | PUA | APC |
| Polycarbonate Clear Monolayer | | | ✓ | | | | ✓ | ✓ | | |