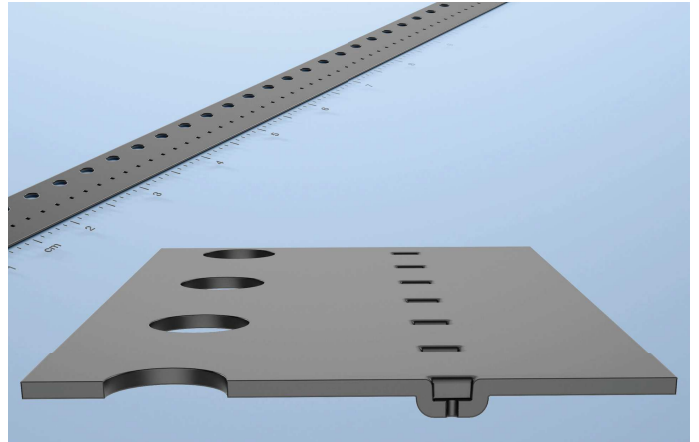


Advantek R-Series Polycarbonate material provides excellent capability for precision design requirements. It is optimized for high volume 8mm and 12mm tape widths, providing the industry's leading high precision solution for tapes requiring extreme accuracy. ESD safe polycarbonate maintains its flexibility, stability and strength through time and temperature variations.

- > Engineered for high-precision pockets supporting small components, LEDs and bare die applications
- > Engineered for high volume production
- > Optimized for 8mm and 12mm wide tapes
- > All Advantek carrier tape is manufactured in accordance with current EIA standards to ensure compatibility with tape and reel equipment



## Material Properties

| Property                  | Value                                     | Test Method |
|---------------------------|---|-------------|
| Material Code - Thickness | RF - 0.21mm<br>RE - 0.23mm<br>RB - 0.25mm | -           |
| Specific Density          | 1.25 g/cc                                 | ASTM D792   |
| Tensile Stress, Yield     | 590 kgf/cm <sup>2</sup>                   | ASTM D638   |
| Tensile Strain, Break     | 20%                                       | ASTM D638   |
| Flexural Stress           | 980 kgf/cm <sup>2</sup>                   | ASTM D790   |
| Heat Distortion           | 129°C (264°F)                             | ASTM D648   |
| Surface Resistance        | 1.0E4 - 1.0E11 Ohms                       | STM 11.13   |
| Color                     | Black                                     | -           |

Note: Conditioned at 23 °C, 50% RH for 24 hours. Values presented are typical laboratory results and may be changed without notice.

## Shelf Life and Storage

We recommend this product be used within 5 years from the date of manufacture. Store in its original packaging in a climate-controlled environment where temperature ranges from 21°C +/- 17°C (70°F +/- 30°F). Product is not affected by humidity. Allow to stabilize at room temperature prior to use.

## Camber

Meets current EIA-481 standard for camber that is not greater than 1 in 250 linear millimeters. For 8mm carrier tape in level wind format, camber will not be greater than 2 in 250 linear millimeters.

## Cover Tape Compatibility

| Type                    | Heat Activated |     |     | Pressure Activated |
|-------------------------|----------------|-----|-----|--------------------|
|                         | HUG            | AD2 | HUE | PUC                |
| Polycarbonate Monolayer | ✓              | ✓   | ✓   | ✓                  |