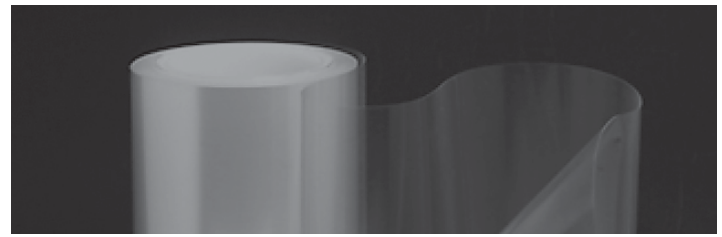




DICING TAPES

# ProFilm™ DL260I Ultraviolet Dicing Tape



Advantek ProFilm™ DL260I Ultraviolet Dicing Tape is designed for use with water jet guided laser dicing systems. This special porous tape is constructed of a chloride-free base film and is wound with a release liner to protect the adhesive layer. ProFilm™ DL260I is nonexpendable and UV curable, providing excellent surface protection, positive wafer and die adhesion and leaves no residue upon removal.

These features combine to help contribute to consistent, precise and repeatable wafer production yields.

- Special non-expandable woven polyethylene terephthalate (PET) base film for unparalleled protection
- Coated with stable UV curable pressure sensitive acrylic adhesive
- Easy die removal post ultraviolet light exposure (cure)
- Substrate minimizes or eliminates die rocking and other picking defects

### Construction

Advantek ProFilm™ DL260I is constructed in four layers:

|                             |                   |
|-----------------------------|-------------------|
| PET Woven Fabric            | 40.0μ (1.6 mils)  |
| Adhesive                    | 25.0μ (1.0 mils)  |
| Release Film                | 22.0μ (0.92 mils) |
| Thickness w/o Release Liner | 65.0μ (2.6 mils)  |

### Configurations

Advantek ProFilm™ DL260I is available in a variety of configurations. Rolls are 100mm in length, splice-free, and wound on a 3" (75mm) I.D. plastic core. Both custom widths and lengths may be available by special request. ProFilm™ DL260I Ultraviolet Dicing Tape rolls are delivered in a UV blocking polybag and individually boxed.

### Shelf Life and Storage

Advantek ProFilm™ DL260I Ultraviolet Laser Dicing Tapes should be stored in a climate controlled environment where conditions do not exceed 25°C (75°F). This product is sensitive to UV light, so keep away from heat and direct sunlight. If stored as recommended the product will yield a shelf life of 12 months from the date of manufacture found on the core label and ensure maximum service life of the product.

### Advantek ProFilm™ DL260I Material Properties

| Property                    | Typical Value                                    | Test Method/Standard |
|-----------------------------|--|----------------------|
| Adhesive Strength (gm/25mm) | Before UV 200 gms<br>After UV 20 gms             | ASTM D1000           |
| Bond Test                   | Mirror Polished Silicon Wafer                    |                      |
| UV Exposure                 | 500 mJ/cm <sup>2</sup> (recommended UV exposure) |                      |
| Peel Angle                  | 180°   |                      |
| Peel & Stretching Speed     | 300 mm/min.                                      |                      |

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

### Advantek ProFilm™ DL260I Material Ionics Data (ppm)

|           |        |
|-----------|--------|
| Fluoride  | <0.025 |
| Chloride  | 0.39   |
| Bromide   | <0.025 |
| Nitrate   | 2.33   |
| Phosphate | <0.025 |
| Sulfate   | <0.025 |
| Sodium    | 0.48   |
| Ammonium  | 0.08   |
| Potassium | 0.14   |
| Magnesium | <0.025 |
| Calcium   | 0.04   |

The above is typical data and should not be used for any specification purposes.



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|                          |                |                    |               |                 |        |        |
|--------------------------|----------------|--------------------|---------------|-----------------|--------|--------|
| Embossed Carrier Tapes   | SFT®           | Complex Designs    | Basic Designs | Interleaf Tapes |        |        |
| Cover Tapes              | Heat Activated | Pressure Sensitive |               |                 |        |        |
| Packaging Reels          | Pro            | Ultra              | Lite          | Trimline        |        |        |
| Barrier Bags             | DRYLOK®        | STATLOK®           |               |                 |        |        |
| Bands                    | PROBAND®       | LOKBAND®           |               |                 |        |        |
| Humidity Indicator Cards | 1 Spot         | 3 Spot             | 4 Spot        | 6 Spot          |        |        |
| Desiccant                | 1/3 Unit       | 1/2 Unit           | 1 Unit        | 2 Unit          | 4 Unit | 8 Unit |
| Dicing Tapes             | UV Cured       | Non UV Cured       |               |                 |        |        |

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