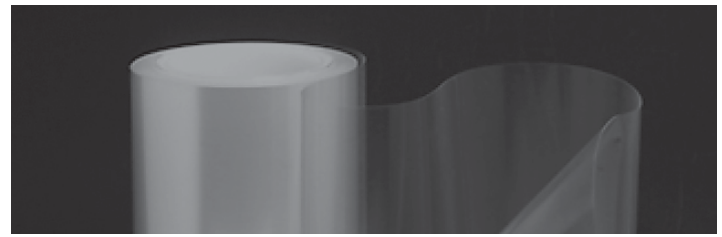




DICING TAPES

ProFilm™ DU177E

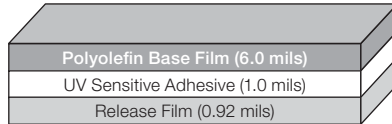


Advantek ProFilm™ DU177E is a protective surface film designed to deliver consistent, precise and repeatable wafer production yields. Enhanced with superior ultraviolet adhesive coating technology, DU177E offers Total Thickness Variation (TTV) control, expandable base film, and a special low extractable release liner that reduces silicon residue by a significant margin.

- Specially formulated polyolefin film for unparalleled protection
- Coated with stable UV curable pressure-sensitive adhesive
- Features expandable chloride-free base film
- Easy die removal post ultraviolet light exposure
- Film minimizes or eliminates die rocking and other picking defects
- Film is transparent and untinted to help human and electronic vision die defect recognition

Construction

Advantek ProFilm™ DU177E is constructed in three layers:



Configurations

Advantek ProFilm™ DU177E is available in a variety of configurations. Standard widths include 200mm, 230mm, 250mm, 275mm, 300mm, 330mm and 400mm. Rolls are provided in splice-free lengths of 100m on a 3" I.D. plastic core. Both custom widths and lengths may be available by special request. ProFilm™ DU177E rolls are polybag wrapped and individually boxed.

Shelf Life and Storage

Advantek ProFilm™ DU177E should be stored in a climate controlled environment where conditions do not exceed 27°C +/- 10° and 30% RH +/- 20%. This product is sensitive to UV light, so store 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.

Advantek ProFilm™ DU177E Material Properties

Property	Typical Value	Test Method/Standard
Adhesive Strength ¹	750g/25mm min before UV (20 min.) 20g/25mm after UV ²	ASTM D 1000
Tensile Strength	13 N/mm ² MD 9 N/mm ² TD	ASTM D 882
Elongation	>600% MD >600% TD	ASTM D 882
Thickness w/o Release Liner	177µ (7.0 mils)	ASTM D 1005
Temperature Resistance	<5 min. @ 50-60°C >5 min. @ 40-45°C	

¹ Bond Test on Stainless Steel Wafer at 180° peel angle and 300mm/min peel and stretching speed.
² UV exposure of 300 mJ/cm²
The values presented for this product are typical laboratory data and may be changed without notice.

Advantek ProFilm™ DU177E Material Ionics Data (ppm)

Fluoride	<0.025
Chloride	0.231
Bromide	<0.025
Nitrate	<0.025
Phosphate	<0.025
Sulfate	0.05
Sodium	0.459
Ammonium	<0.025
Potassium	0.056
Magnesium	<0.025
Calcium	0.131

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		
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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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