



ProFilm DU099H Ultraviolet Dicing Tape

ProFilm™ DU099H is a protective surface film designed to assure consistent, precise and repeatable wafer production yields enhanced with superior ultraviolet adhesive coating technology, ProFilm™ DU099H features Total Thickness Variation (TTV) control, expandable base film, and a special low-extractable release liner to significantly reduce silicon residue.

- 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 UV 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

ProFilm™ DU099H is constructed in three layers:

Polyolefin Base Film (3.5Mils)
UV Sensitive Adhesive (0.38Mils)
Release Film (0.92Mils)

CONFIGURATIONS

ProFilm™ DU099H 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™ DU099H rolls are polybag wrapped and individually boxed.

SHELF LIFE AND STORAGE

ProFilm™ DU099H 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.

ProFilm DU099H Material Properties

The values presented for this product are typical laboratory data and may be changed without notice. ¹UV exposure of 300 mJ/cm²

Property	Typical Value	Test Method / Standard
Adhesive Strength ¹	250g min before UV (20 min.) 15g after UV ¹	ASM D 1000
Tensile Strength	15 N/mm ² MD 9 N/mm ² MD	ASTM D 882
Elongation	>600% MD >600% TD	ASTM D 882
Thickness w/o Release Liner	99μ (3.9 mils)	ASTM D 1005
Temperature Resistance	<5 min. @ 50-60°C >5 min. @ 40-45°C	-

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

DU099H Material Ionics Data										
Fluoride	Chloride	Bromide	Nitrate	Phosphate	Sulfate	Sodium	Ammonium	Potassium	Magnesium	Calcium
<0.025	0.231	<0.025	<0.025	<0.025	0.05	0.459	<0.025	0.056	<0.025	0.131