



ProFilm DX102F Dicing Tape

ProFilm™ DX102F is a protective surface film designed to assure consistent, precise and repeatable wafer production yields. Utilizing superior coating technology, DX102F offers 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 bond pressure sensitive adhesive
- Features expandable, chloride free, base film
- Results in consistent release of sawn die
- Film is transparent and untinted to help human and electronic defect recognition

CONSTRUCTION

ProFilm™ DX102F is constructed in three layers:

Polyolefin Base Film (3.5Mils)
UV Sensitive Adhesive (0.5Mils)
Release Film (0.92Mils)

CONFIGURATIONS

DX102F 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™ DX102F rolls are polybag wrapped and individually boxed.

SHELF LIFE AND STORAGE

ProFilm™ DX102F should be stored in a climate controlled environment where conditions do not exceed 25°C (75°F). 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 DX102F Material Properties

¹ Bond Test on Stainless Steel Wafer at 180° peel angle and 300mm/min peel and stretching speed.

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

Property	Typical Value	Test Method / Standard
Adhesive Strength ¹	150g/25mm	ASM D 1000
Tensile Strength	15 N/mm ¹ MD 9 N/mm ¹ MD	ASTM D 882
Elongation	>600% MD >600% TD	ASTM D 882
Thickness w/o Release Liner	100μ (4.0 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.

DX102F Material Ionics Data										
Fluoride	Chloride	Bromide	Nitrate	Phosphate	Sulfate	Sodium	Ammonium	Potassium	Magnesium	Calcium
<0.025	0.105	<0.025	<0.025	<0.025	<0.025	0.29	<0.025	0.046	<0.02	0.05