



minitron

With a typical „blue“ tape, the adhesive strength has to be carefully selected to match the die size: High enough to firmly hold small chips during dicing, low enough to enable pick-up without harming the die.

UV-sensitive tape requires no compromises: Uncured the adhesive strength is high enough to hold the smallest dies in place securely, eliminating chipping which is often caused by die movement.

By reducing the adhesive strength to 1/10, during the UV-curing process, even large dies can be picked up

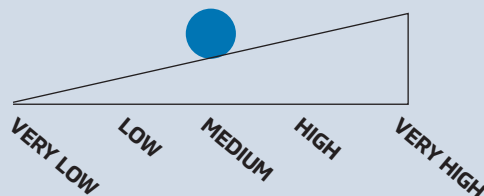
**D&X
UV
Sensitive
Tape**



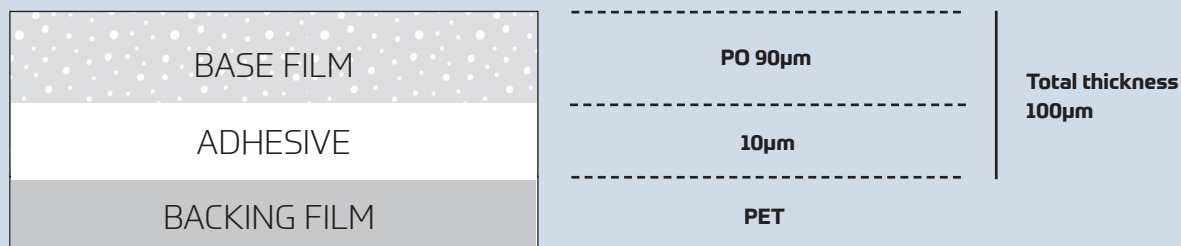
Dicing Tape DX-TAP100:

PO-based UV-tape with medium adhesion before UV-Curing.

ADHESION:



FILM CONSTRUCTION:



SPECIFICATION:

Type:	DX-TAP100		Horizontal	Vertical
Base film material:	PO (polyolefin)	Elongation:	645 %	652 %
Base film thickness:	90 µm	Tensile Strength:	5.0 kg / 25 mm	6.0 kg / 25 mm
Backing film material:	PET (Polyethylene Terephtalate)			
Color:	Frosted			
Adhesive thickness:	10 µm			
Adhesion before UV-Curing (to Si):	620 g / 25 mm			
Adhesion after UV-Curing (to Si):	18 g / 25 mm			
Shelf life:	6 months after manufacturing date			
Storage:	below 23°C in a dark room			

Notice

Peeling speed 300mm/min, Peeling angle 180°, integrated light intensity 300mJ/cm², wave-length 365nm

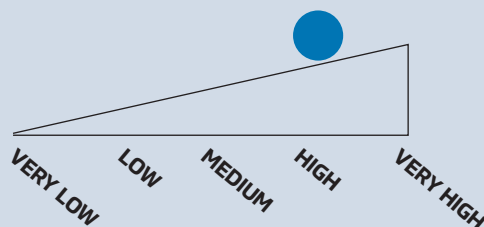
Specifications are based on experimental results and don't serve as a guarantee. Before using, please check under your condition.



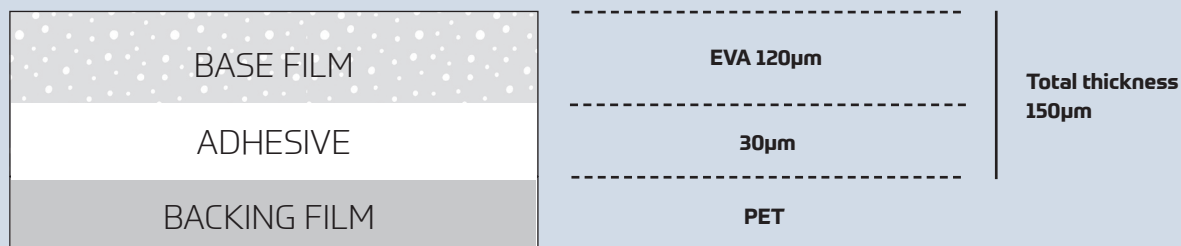
Dicing Tape DX-TAB150C-A:

EVA-based UV-tape with high adhesion before UV-Curing.

ADHESION:



FILM CONSTRUCTION:



SPECIFICATION:

		Horizontal	Vertical
Type:	DX-TAB150C-A		
Base film material:	EVA (ethylene vinyl acetate)	Elongation:	673 %
Base film thickness:	120 µm	Tensile Strength:	7.3 kg / 25 mm
Backing film material:	PET (Polyethylene Terephthalate)		5.5 kg / 25 mm
Color:	Blue, translucent		
Adhesive thickness:	30 µm		
Adhesion before UV-Curing (to Si):	890 g / 25 mm		
Adhesion after UV-Curing (to Si):	10 g / 25 mm		

Notice

Peeling speed 300mm/min, Peeling angle 180°, integrated light intensity 300mJ/cm², wave-length 365nm

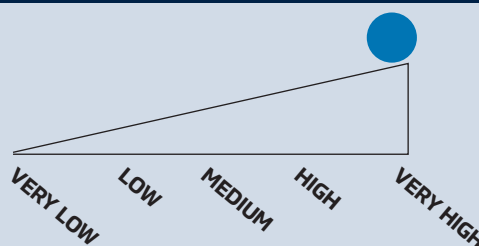
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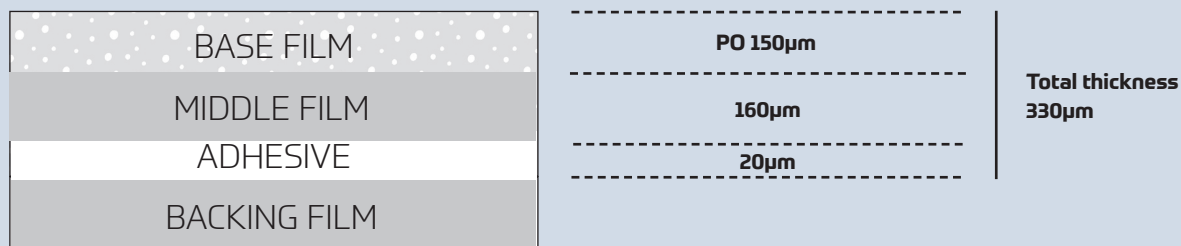
Dicing Tape DX-LCP330Z:

Thick PO-based UV-tape with a middle film, that compensates height variations on the substrate like solder bumps. The adhesive force is very high.

ADHESION:



FILM CONSTRUCTION:



SPECIFICATION:

Type:	DX-LCP330Z
Base film material:	PO (Polyolefin)
Base film thickness:	150 µm
Color:	Colorless, transparent
Adhesive thickness:	20 µm
Adhesion before UV-Curing (to Si):	2460 g / 25 mm
Adhesion after UV-Curing (to Si):	30 g / 25 mm

	Horizontal	Vertical
Elongation:	876 %	813 %
Tensile Strength:	7.8 kg / 25 mm	8.5 kg / 25 mm

Notice

Peeling speed 300mm/min, Peeling angle 180°, integrated light intensity 300mJ/cm², wave-length 365nm

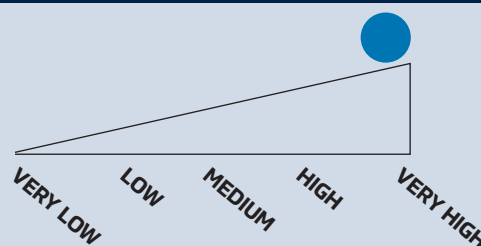
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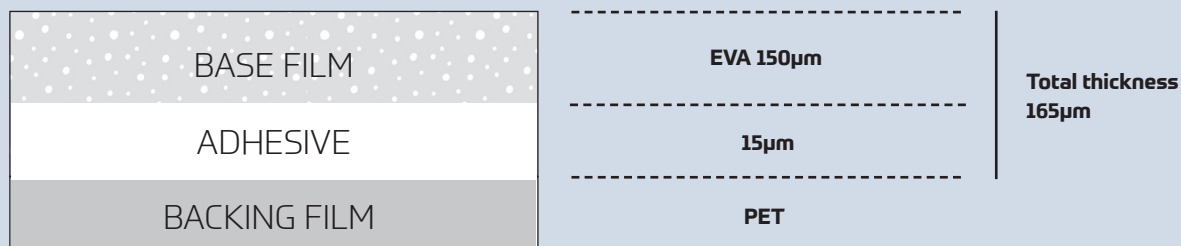
Dicing Tape DX-TAB165C:

EVA-based UV-tape with very high adhesion before UV-Curing.

ADHESION:



FILM CONSTRUCTION:



SPECIFICATION:

		Horizontal		Vertical
Type:	DX-TAB165C			
Base film material:	EVA (ethylene vinyl acetate)	Elongation:	>700 %	>600 %
Base film thickness:	150 µm			
Backing film material:	PET (Polyethylene Terephtalate)			
Color:	Colorless and half-transparent			
Adhesive thickness:	15 µm			
Adhesion before UV-Curing (to Si):	1600 g / 25 mm			
Adhesion after UV-Curing (to Si):	12 g / 25 mm			

Notice

Peeling speed 300mm/min, Peeling angle 180°, integrated light intensity 300mJ/cm², wave-length 365nm

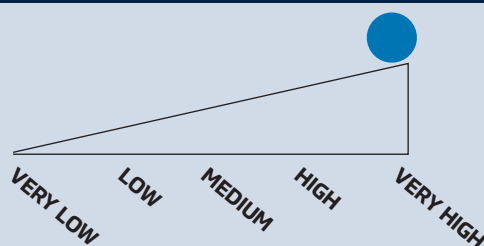
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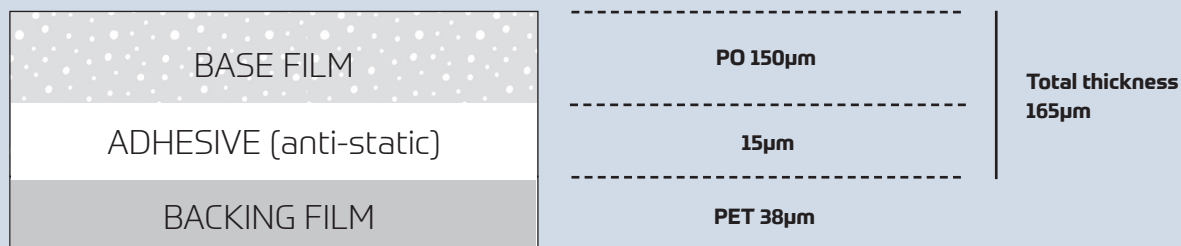
Dicing Tape DX-TAP165E-AS:

UV-sensitive tape with anti-static adhesive. Very high adhesion before UV-curing.

ADHESION:



FILM CONSTRUCTION:



SPECIFICATION:

Type:	DX-TAP165E-AS		Horizontal	Vertical
Base film material:	PO (polyolefin)	Elongation:	>600 %	>500 %
Base film thickness:	150 µm			
Backing film material:	PET (Polyethylene Terephtalate)			
Color:	Colorless and transparent			
Adhesive thickness:	15 µm			
Adhesion before UV-Curing (to Si):	1800 g / 25 mm			
Adhesion after UV-Curing (to Si):	15 g / 25 mm			
Anti-static surface resistivity:	1.0x10 ¹⁰ ~9.0x10 ¹¹ Ω/□			

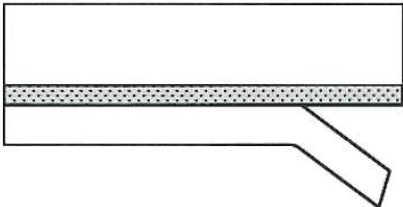
Notice

Peeling speed 300mm/min, Peeling angle 180°, integrated light intensity 300mJ/cm², wave-length 365nm

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SPEC SHEET

Product: DX-TAP165EZ

Items	Units		Standards
Appearance ¹⁾			Colorless Transparent
Thickness	μm		165
Adhesive strength ²⁾	mN/25mm	before UV irradiation	25,300
		after UV irradiation	260
Elongation	%	lengthwise	750
		crosswise	800
Tensile strength	N/10mm	lengthwise	42
		crosswise	38
Remarks			Note that specifications above are measurement example
 ← PO 150μm ← Adhesive layer 15μm ← PET Separator			

1) Colorless and transparent.

2) Measured values are the tape's adhesive strength of 1 hour after stuck on mirror finished silicon wafer.
300mJ/cm² of UV light was applied for UV-set reaction.

Technical Data Sheet

Type: DX-TAU213

1. Composition



Backing/Basisfilm	PET
Adhesive	
Film/Schutzfolie	PET

2. Quality Specification

Test item	Unit	Spec
Adhesive Thickness	mic	25
Total Thickness	mic	210
Adhesion (before UV)	mN/25mm	40.000
Adhesion (after UV)	mN/25mm	170
Elongation	%	
Tensile Strength	N/10mm	

3. Product Specification

Color	Clear
Width	230mm or 300mm
Length	100m
MOQ	depending on stock

4. Shelf life

6 months after manufacturer date when stored below 23°C in dark.

5. Notice

Specifications based on experimental results and don't serve as a guarantee. Before using, please check under your condition.

Technical Data Sheet

Type: DX-TAU125B

1. Composition



Backing/Basisfilm PET

Adhesive

Film/Schutzfolie PET

2. Quality Specification

Test item	Unit	Spec
Adhesive Thickness	mic	25
Total Thickness	mic	125
Adhesion (before UV)	mN/25mm	27.000
Adhesion (after UV)	mN/25mm	110
Elongation	%	
Tensile Strength	N/10mm	

3. Product Specification

Color	Clear
Width	230mm or 300mm
Length	100m
MOQ	depending on stock

4. Shelf life

6 months after manufacturer date when stored below 23°C in dark.

5. Notice

Specifications based on experimental results and don't serve as a guarantee. Before using, please check under your condition.

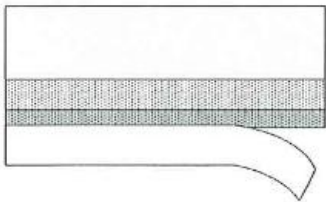
INSPECTION SHEET

Date: Nov .6. 2024

D&X Co., Ltd.

Product: DX-TAU100
Lot Number: 24X24
Inspection date: Nov .5. 2024
Judge: OK

Inspector	
	

Items	Units		Measured values	Remark
Appearance			Good	Blue and Transparent
Thickness	μm		102	JIS P 8118
Dimension of roll				
Length	m		30	—
Width	mm		330400	—
Adhesive strength	mN/25mm	before UV irradiation	22,330	JIS Z 0237
		after UV irradiation	116	
Elongation	%	lengthwise	—	JIS Z 0237
		crosswise	—	
Tensile strength	N/10mm	lengthwise	—	JIS Z 0237
		crosswise	—	
Remarks				
 ← PET 50μm ← Adhesive layer中間層 30μm ← Adhesive layerUV層 20μm ← separator 38μm				

1, Blue and transparent.

2) Measured values are the tape's adhesive strength of 1 hour after stuck on mirror finished silicon wafer.
300mJ/cm² of UV light was applied for UV-set reaction.

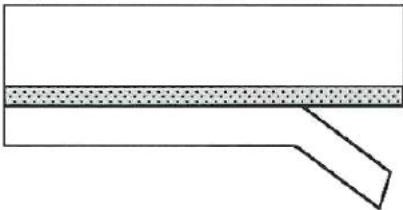


Tel: 0081-42-557-2227/Japan

SPEC SHEET

D&X Co., Ltd.

Product: DX-TAU115

Itmes	Units		Standards
Appearance			Colorless Transparent
Thickness	μm		115
Adhesive strength ⁽¹⁾	mN/25mm	before UV irradiation	19,000
		after UV irradiation ⁽²⁾	100
Elongation	%	lengthwise	—
		crosswise	—
Tensile strength	N/10mm	lengthwise	—
		crosswise	—
Remarks			<u>Note that specifications above are measurement example</u>
 ← PET 100μm ← Adhesive layer 15μm ← PET Separator			

- (1) 180° peeling, peeling speed 300mm/min, on Si mirror wafer
(2) UV irradiance condition : 300mJ/cm²
(3) Test speed: 100mm/min





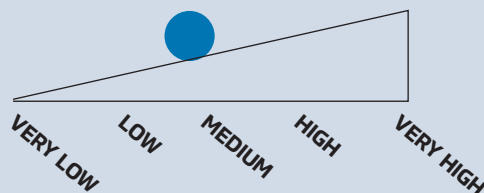
Backgrinding Tape DX-LCP130GX:

PO-based UV-tape with medium adhesion before and very low adhesion after UV-Curing.

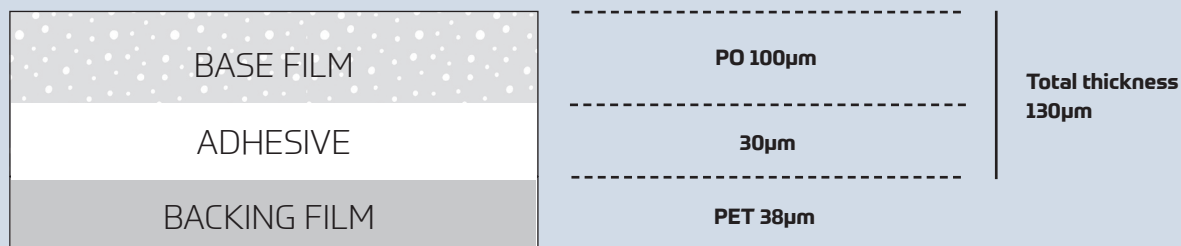
For backgrinding application

Free from a crease, stain, foreign matter, or bubbles

ADHESION:



FILM CONSTRUCTION:



SPECIFICATION:

Type:	DX-LCP130GX		Horizontal	Vertical
Base film material:	PO (polyolefin)	Elongation:	750 %	600 %
Base film thickness:	100 µm	Tensile Strength:	6.25 kg / 25 mm	6.25 kg / 25 mm
Backing film material:	PET (Polyethylene Terephthalate)			
Color:	Frosted			
Adhesive thickness:	30 µm			
Adhesion before UV-Curing (to Si):	880 g / 25 mm			
Adhesion after UV-Curing (to Si):	6 g / 25 mm			
Shelf life:	6 months after manufacturing date			
Storage:	below 23°C in a dark room			

Notice

Peeling speed 300mm/min, Peeling angle 180°, integrated light intensity 300mJ/cm², wave-length 365nm

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