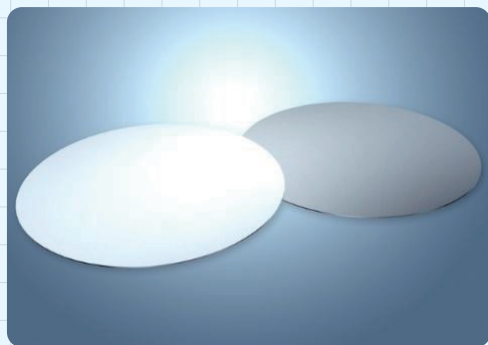




Semiconductor process tape

Bonito (Dicing Tape)
Waveclear (Backgrind Tape)



【What is dicing tape?】

Dicing tape is used to hold wafers securely in place during the dicing process. UV-curable dicing tape exhibits high adhesion strength before UV irradiation, while the adhesion strength is significantly reduced after UV irradiation. Some types also offer excellent chemical resistance. UV-curable dicing tape is a pressure-sensitive adhesive and provides stable, consistent peelability.

【What is backgrinding tape?】

Backgrinding tape is used to protect the circuit side of the wafer from scratches, chipping, cracks, and contamination caused by external foreign matter during backside grinding (back-grinding).

The UV-curable type exhibits high adhesion strength before UV irradiation, while the adhesion strength is reduced after UV irradiation. The UV-curable type is a pressure-sensitive adhesive that provides stable and consistent peelability.

【What is UV-curable tape?】

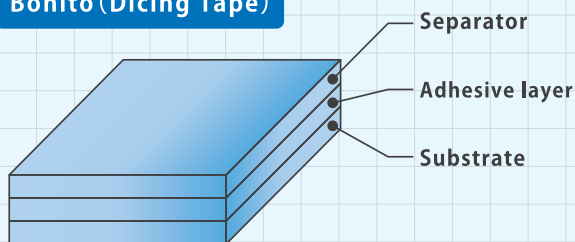


UV-curable tape is used in the dicing and backgrinding processes of semiconductor wafers.

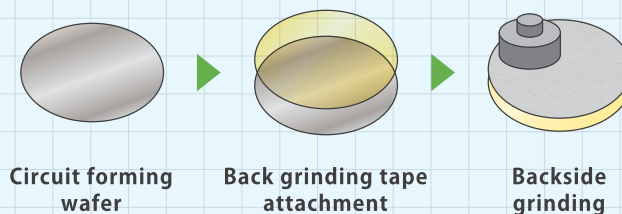
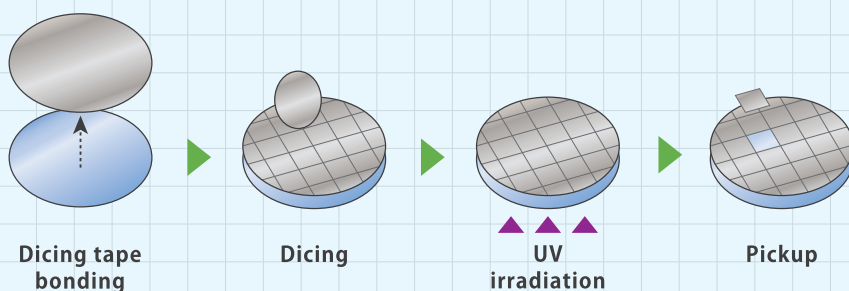
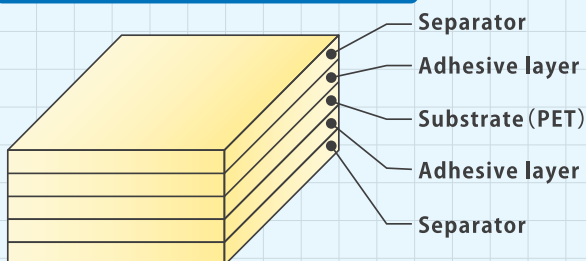
Its high adhesion strength firmly holds wafers in place during processing, and exposure to ultraviolet (UV) irradiation after processing significantly reduces the adhesion strength, allowing the chips to be easily peeled off. This enables even thin wafers to be safely handled, transported, and separated while preventing cracks and chipping.

【Layer Structure】

Bonito (Dicing Tape)



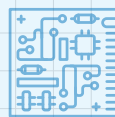
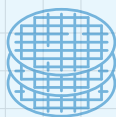
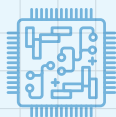
Waveclear (Backgrinding Tape)



【Configuration Table】

Category	Bonito (Dicing Tape)			Waveclear (Backgrinding Tape)	
Part Number	RMGUY90 DPET-12510 DPO-1420	NMGUY80	RMGUY90PET-K RMGUY90-K	DPET-075115	214D
Type	UV cureble type	Non-UV cureble type	Chemical-resistance UV cureble type	UV cureble ty	Non-UV cureble type
Substrate	PVC・PET・PO	PVC	PVC・PET	PET	PET
Adhesive	Acrylic	Acrylic	Acrylic	Acrylic	Acrylic

【Physical Properties Table】



Bonito (Dicing Tape)

UV cureble types

Part number	Substrate	Total thickness (mm)	Base material thickness (mm)	Adhesion thickness (mm)	Color	Adhesion strength (N/25mm)	Adhesion strength after UV (N/25mm)
RMGUY90	PVC	0.09	0.08	0.01	Blue/Opaque	0.6	0.09
DPET-12510	PET	0.135	0.125	0.01	Transparent	8.0	0.2
DPO-1420	PO	0.16	0.14	0.02	Opaque	14.0	0.3

Non-UV cureble type

Part number	Substrate	Total thickness (mm)	Base material thickness (mm)	Adhesion thickness (mm)	Color	Adhesion strength (N/25mm)	Adhesion strength after UV (N/25mm)
NMGUY80	PVC	0.08	0.07	0.01	Blue/Opaque	2.0	—

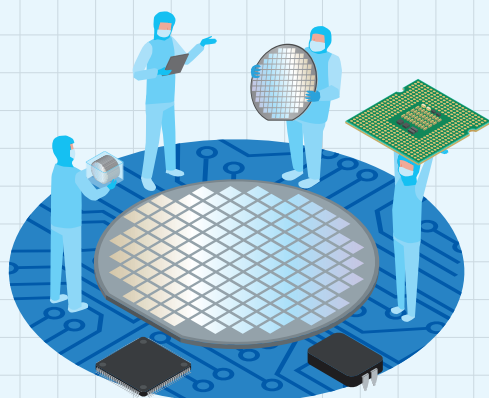
Chemical-resistance / UV cureble types

Part number	Substrate	Total thickness (mm)	Base material thickness (mm)	Adhesion thickness (mm)	Color	Adhesion strength (N/25mm)	Adhesion strength after UV (N/25mm)
RMGUY90PET-K	PET	0.07	0.05	0.02	Transparent	4.2	2.1
RMGUY90-K	PVC	0.09	0.07	0.02	Blue/Opaque	4.2	2.1

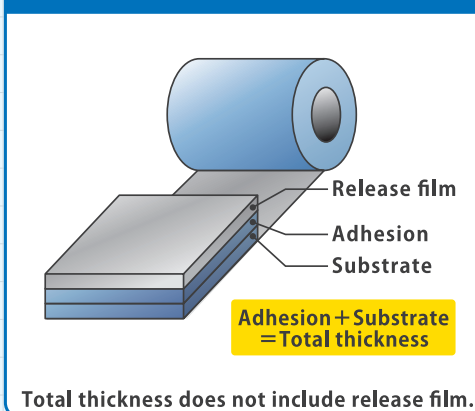
Waveclear (Backgrid tape)

Part number	Substrate	Type	Total thickness (mm)	Base material thickness (mm)	Adhesion thickness (mm)	Color	Adhesion strength (N/25mm)	Adhesion strength after UV (N/25mm)
214D	PET	Non-UV cureble type	0.135	0.025	High adhesion side: 0.08 Low adhesion side: 0.03	Transparent	High adhesion side: 25 Low adhesion side: 15	—
DPET-075115	PET	UV cureble type	0.19	0.075	0.115	Transparent	12.5	0.5

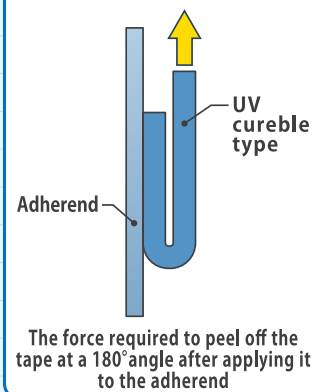
【Reference: Total thickness and adhesion strength】



Total thickness



Adhesion strength



User is responsible for determining whether the KGK product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a KGK product in a particular application.

The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a KGK product.

Given the variety of factors that can affect the use and performance of a KGK product, some of which are uniquely within the user's knowledge and control, It is essential that the user evaluate the KGK product to determine whether it is fit for a particular purpose and suitable for the user's method of application. KGK make no warranties on above data.

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