



KGK Chemical Corp.

#1 Coating Technology in The World  
Molecule Gradient Layer (MGL)<sup>TM</sup> Technology

2022 Jan., 19

Optical double-sided tape with excellent shock absorption

May Clean Gel

## MGSRTD 2.5-200 series

### Construction

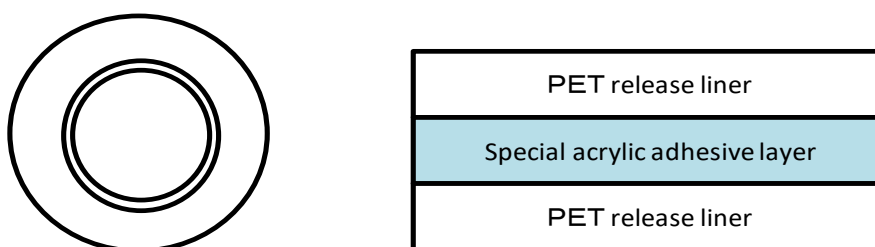
Optical double-sided tape based on acrylic gel

### May Clean Gel series characteristics

- (1) Excellent in visible light transmittance
- (2) Excellent energy absorption

### MGSRTD Features

1. Reduction of corrosion of ITO and polarizing plate with acrylic acid free property
2. Excellent impact resistance
3. High reliability when laminated to PC and PMMA (blister resistance, temperature resistance)
4. High followability to warpage of resin (PC, PMMA)



### Properties

Grade	Thickness ( $\mu\text{m}$ )	Adhesive force(N/25mm)		Total light transmittance (%)	HAZE
		SUS	PC		
MGSRTD2.5	25	7.3	4.3	>99	0.5
MGSRTD10	100	19.9	14.2	>99	0.5
MGSRTD17.5	175	23.6	17.8	>99	0.6
MGSRTD25	250	23.9	18.0	>99	0.7
MGSRTD50	500	25.3	19.6	>99	0.9
MGSRTD100	1000	28.0	21.8	>99	1.5
MGSRTD150	1500	30.8	24.3	>99	2.0
MGSRTD200	2000	33.5	26.8	>99	2.5

**Adhesion Test conditions;**

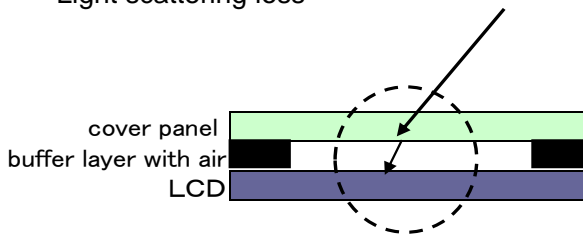
**Backing material:** PET25μm  
**Tensile speed:** 300mm/min  
**Peeling angle:** 180 degrees  
**Room temperature:** 23°C  
**Measuring timing:** 24 hours after bonding

**Transmittance, HAZE test method:**

Measured by bonding optical glass  
 Transmittance is the value when the loss due to interfacial reflection is excluded by calculation.

**Application example****Touch panel application****【buffer layer with air gap】**

Light scattering loss



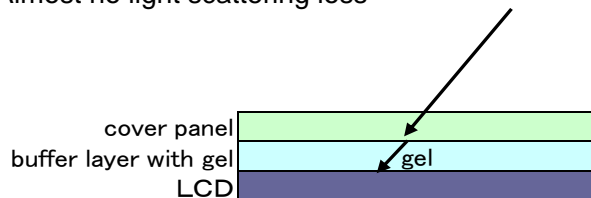
The refractive index of a cover panel and the refractive index of a buffer layer is different. The light which goes into a buffer layer from a cover panel decreases.

Transmission **86.9%**

For visibility improvement, shock absorption and protection

**【buffer layer with gel】**

Almost no light scattering loss



The refractive index of a cover panel and the refractive index of a buffer layer is same. The light which goes into a buffer layer from a cover panel does not decrease.

Transmission **92.1%**

**Cautions**

User is responsible for determining whether the KGK product fits 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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