

# Japan Invention Awards

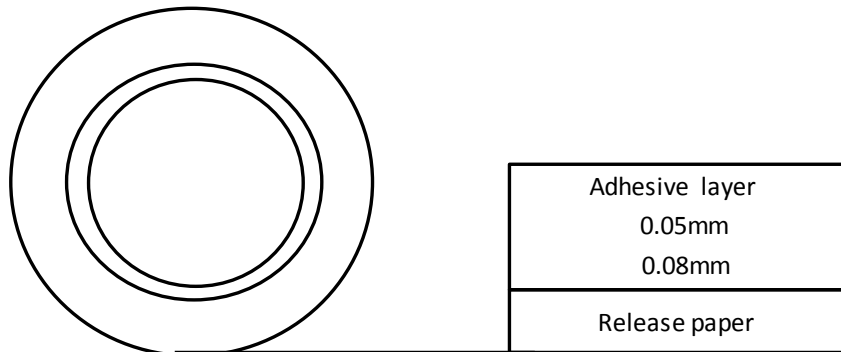
*Molecular gradient double tape May clean gel  
Liquid crystal polymer film*

# Mechanical faiber tape 201MF

The logo for KGIK, consisting of the letters K, G, I, and K in a stylized, bold, white font. The letters are interconnected, with the 'G' and 'I' sharing a vertical stroke. The background of the entire slide features a blue world map with a radial pattern of lines emanating from the center.

# What is Mechanical fiber?

Thin film tape with good cut performance, even without substrate



Structure having pseudo-crosslink in adhesive layer.

Succeeded to develop supple and strong adhesive force without using adhesive-inhibited nonwoven fabric.

Compared to nonwoven tape

Thin film by non-substrate

Improve Adhesive force

Happen heat resistant performance



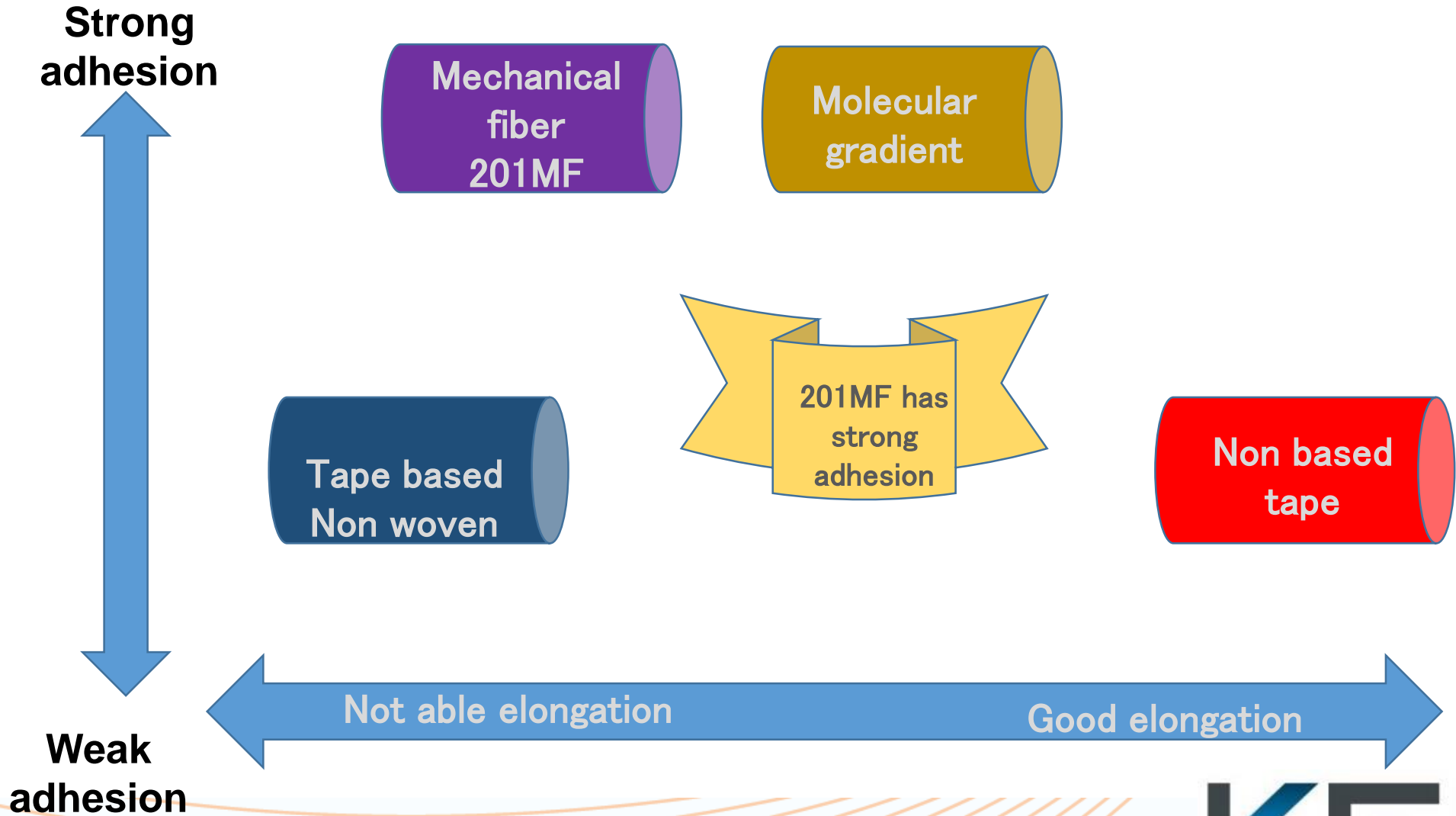
Outline of products

Application

Every fixation

# What is Mechanical tape?

Product image



# Basic properties

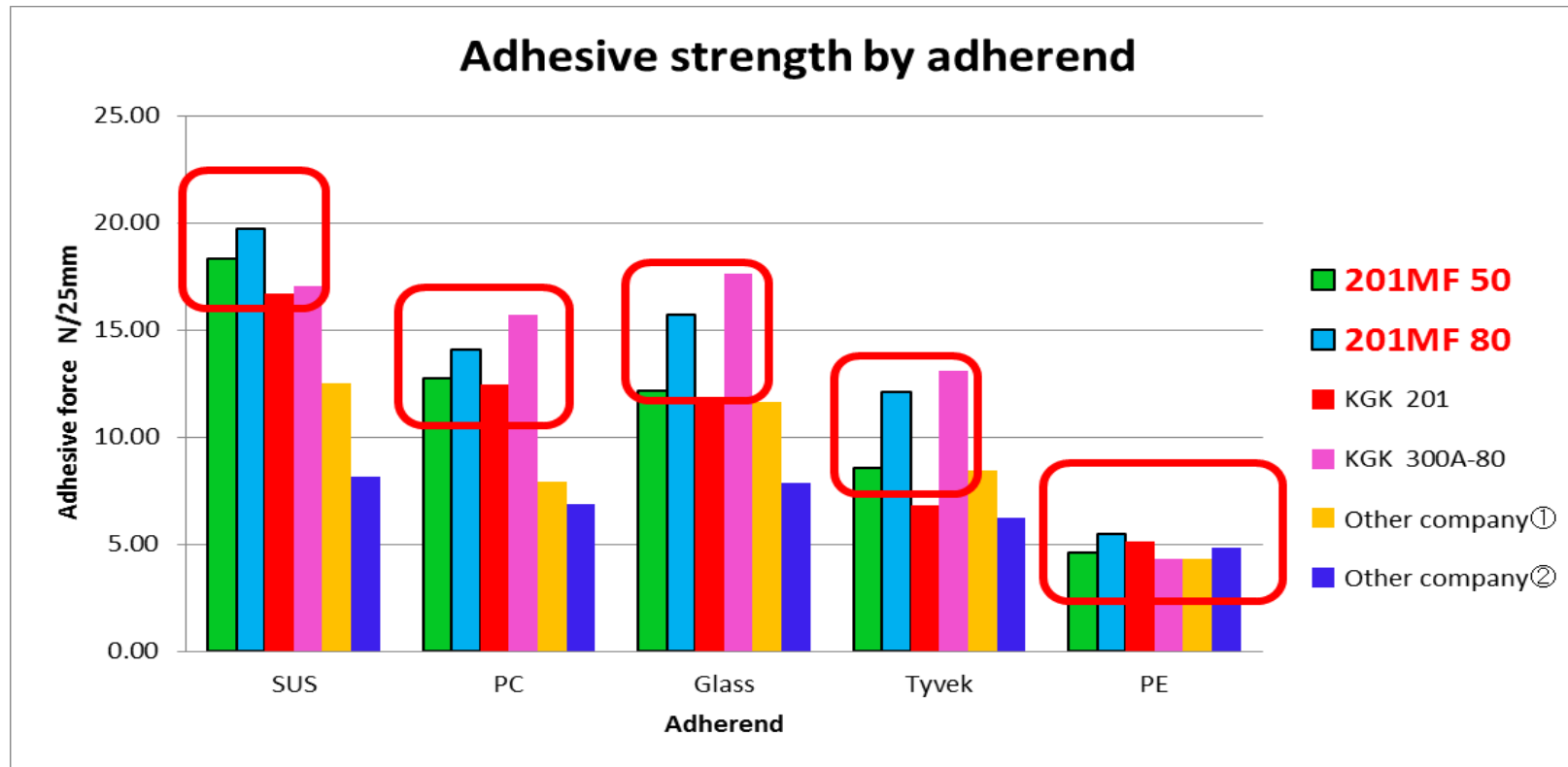
Item	Thickness	Adhesive	tensil strength	product outline
	mm	N/inch	N/10mm	
*201MF50	0.05	18	0.5	Acrylic adhesive
*201MF80	0.08	20	0.7	Fiber polyester
KGK 201	0.12	16	4	Acrylic adhesive Base as non-woven

Compared to our nonwoven fabric base tape, it is thinner and improves adhesion

It is possible to process with a light force

# Physical properties

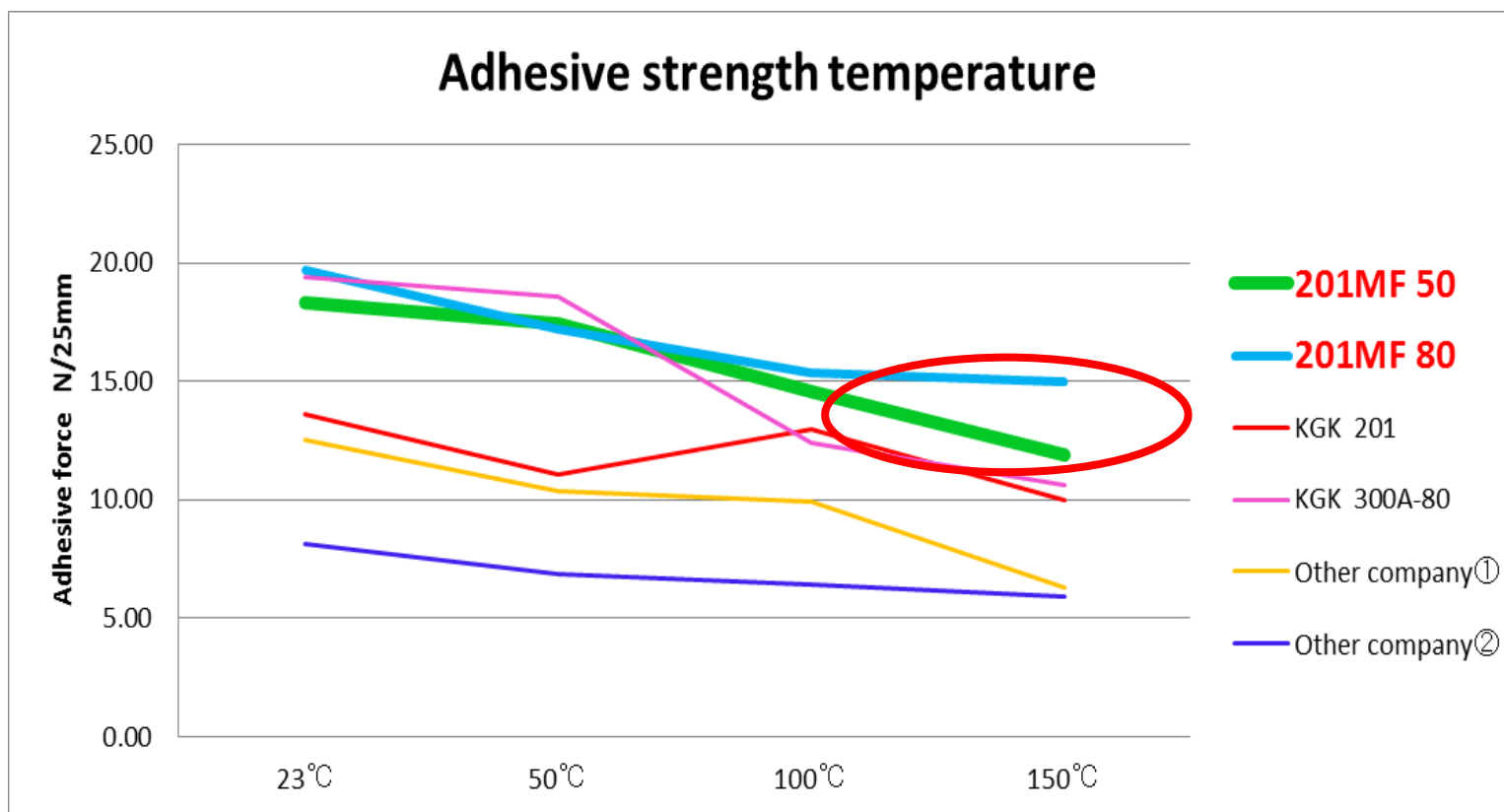
- Adhesion to SUS, PC, glass, Tyvek, PE respectively



Higher adhesive strength than nonwoven fabric tape

# Physical properties

- Comparison of adhesion at 23 ° C, 50 ° C, 100 ° C, 150 ° C
- ✂ Measure after leaving 60 s at each temperature



- 201 MF maintains higher adhesion than other tapes even in high temperature environment

# Physical properties

● Changes in holding force at 23 ° C, 50 ° C, 100 ° C, 150 ° C

Retention force by temperature (1kg, 6hr)

Product	μ m	Holding power mm			
		23°C	50°C	100°C	150°C
201MF 50	49.33	0.2	0.6	1.0	5h
201MF 80	80.00	0.0	0.4	1.0	5h
KGK 201	122.00	0.0	0.7	5h	5h
KGK 300A-80	80.33	0.1	0.4	0.5	2.0
Other company①	139.33	0.0	0.1	5h	5h
Other company②	125.33	0.0	0.1	4h	5h

Mechanical  
faiber

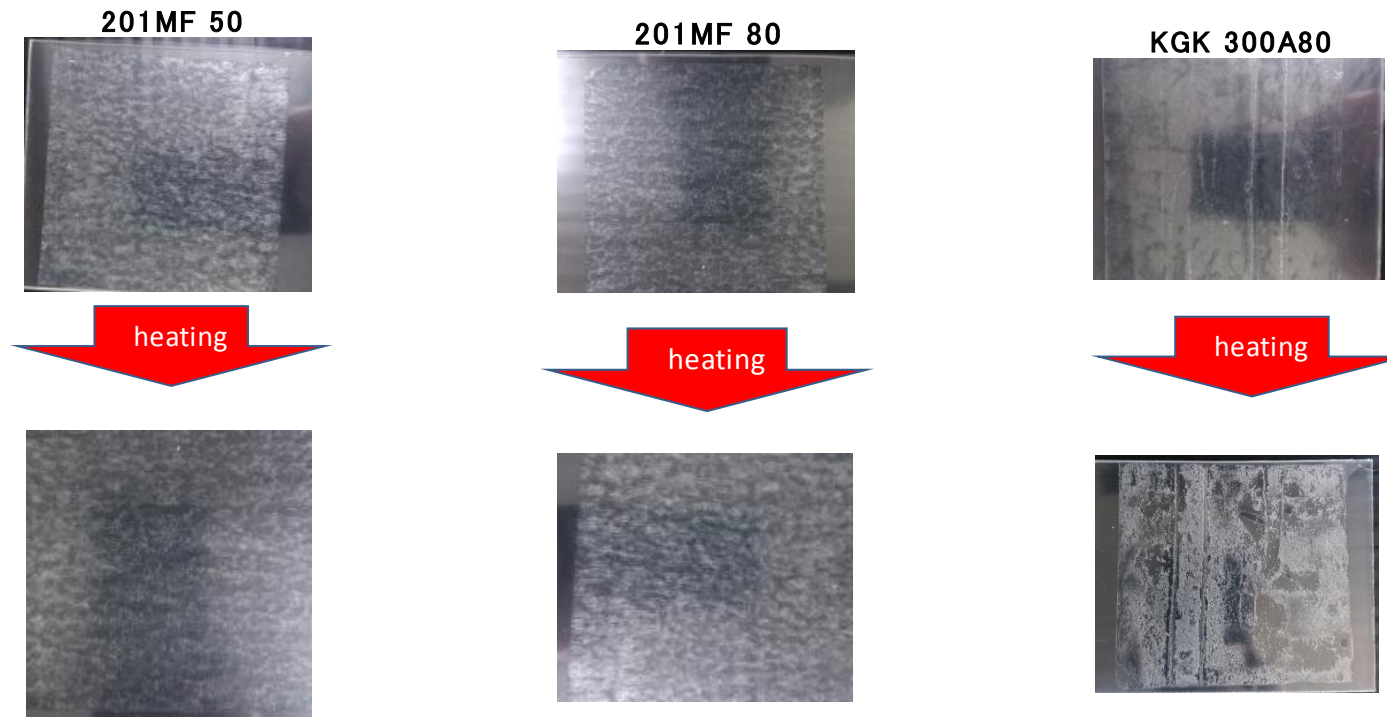
Molecular  
gradient

\* The colored part indicates the time when it fell.

● Maintain retention force even at 100 ° C compared to nonwoven tape

# Physical properties

- Heat resistance evaluation (leave for 100 h under 60 ° C environment)

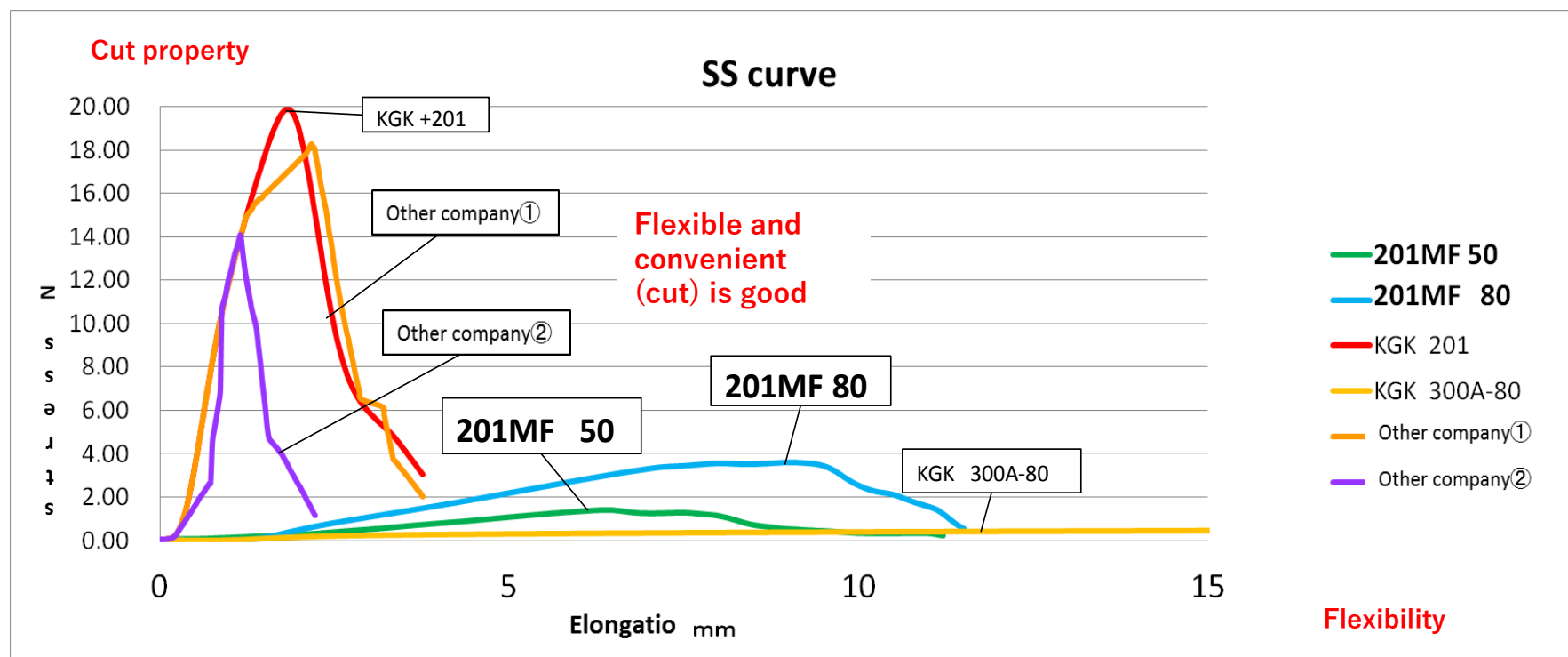


- Make sure there is no foaming. ※ 201 MF white part is fiber



# Physical properties

## ● SS curve



● It is possible to cut with a lighter force than nonwoven fabric products.

# End of presentation

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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