

Silicone May Clean Gel MGSiH

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KGK Chemical Corporation
Technical Section

Construction and Features



Construction

PET separator
Specific adhesive layer (Silicone polymer)
PET separator

t0.05~1.0mm

"MGSiH" is an OCA (optically clear adhesive) utilizing silicone gel. It is available in different thicknesses to meet various customer needs.

【Features】

① Material

- A highly transparent silicone gel adhesive,
- Excellent physical properties in low and high temperatures, providing stable performance.

② Optical properties

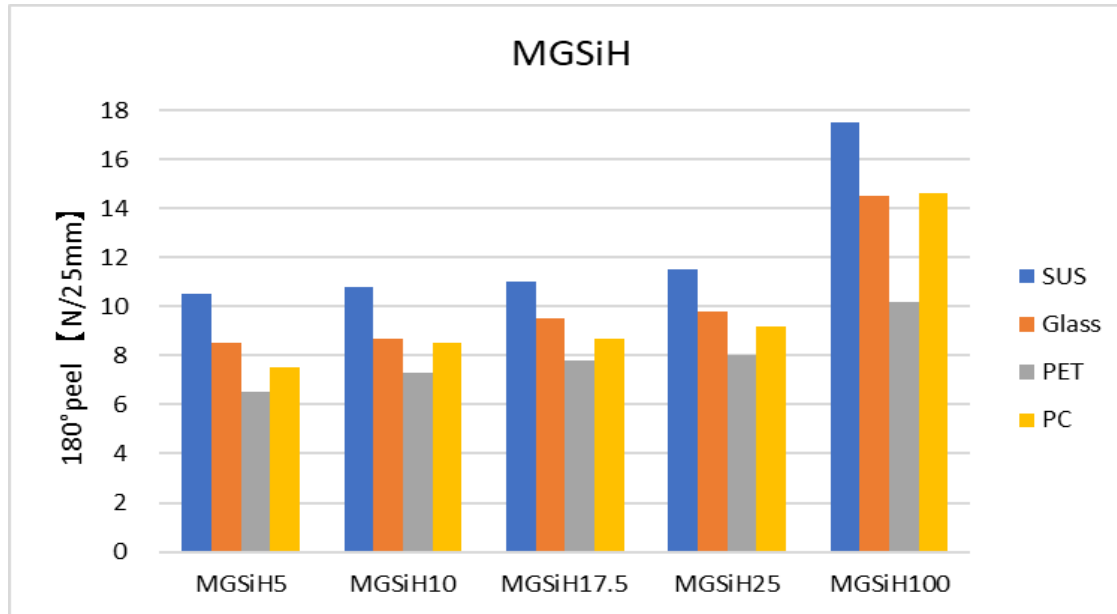
- High total light transmittance and excellent optical properties

③ Application ideas

- Optical bonding applications for smartphones and automobiles
- Cushion material for building materials

MGSi Properties (I)

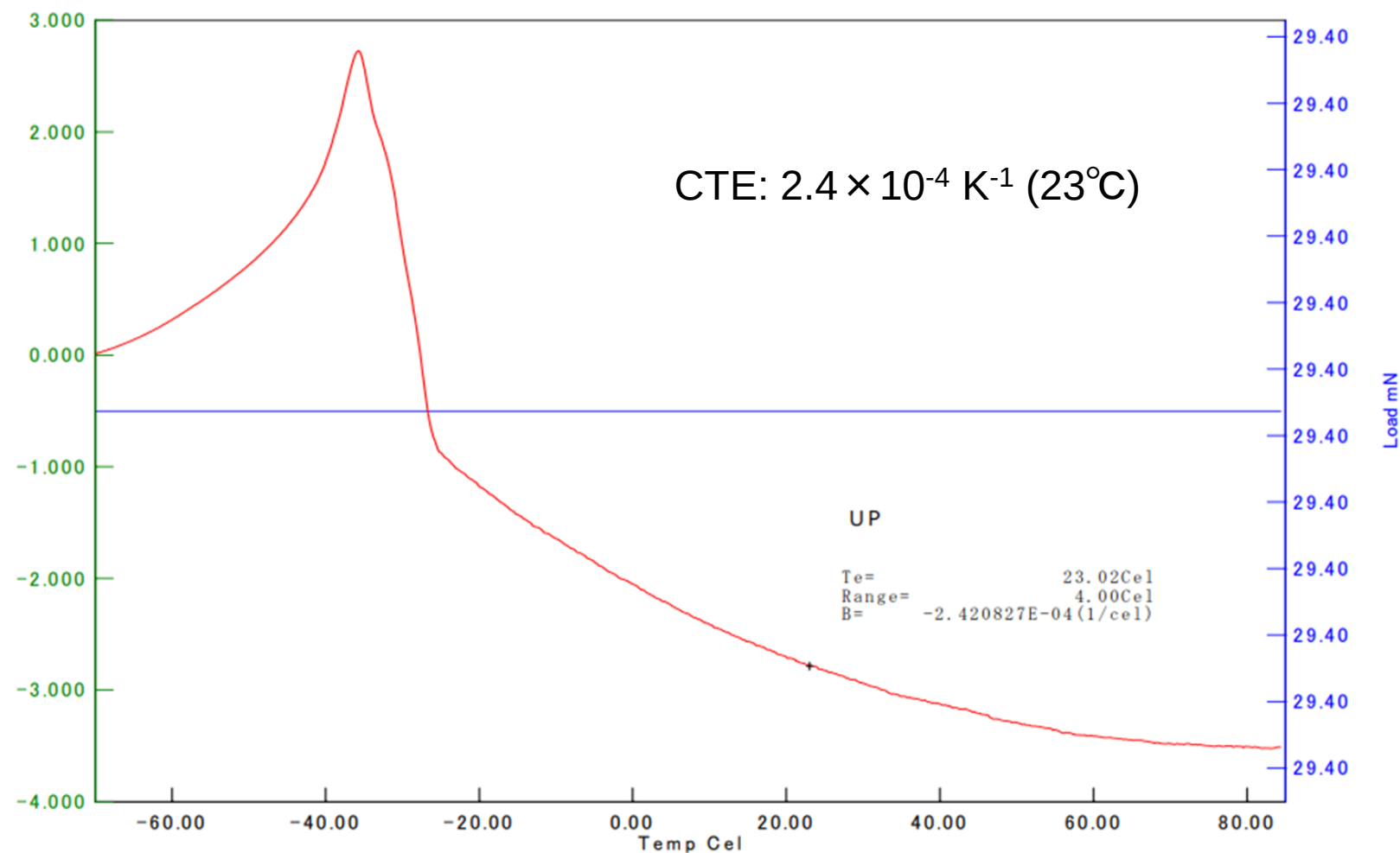
Properties



Product name	Thickness (μm)	Adhesive force(N/25mm)				T.T. (%)	HAZE (%)
		SUS	Glass	PET	PC		
MGSiH5	50	10.5	8.5	6.5	7.5	92	1.0
MGSiH10	100	10.8	8.7	7.3	8.5	92	1.0
MGSiH17.5	175	11.0	9.5	7.8	8.7	92	1.0
MGSiH25	250	11.5	9.8	8.0	9.2	92	1.0
MGSiH100	1000	17.5	14.5	10.2	14.6	92	1.0

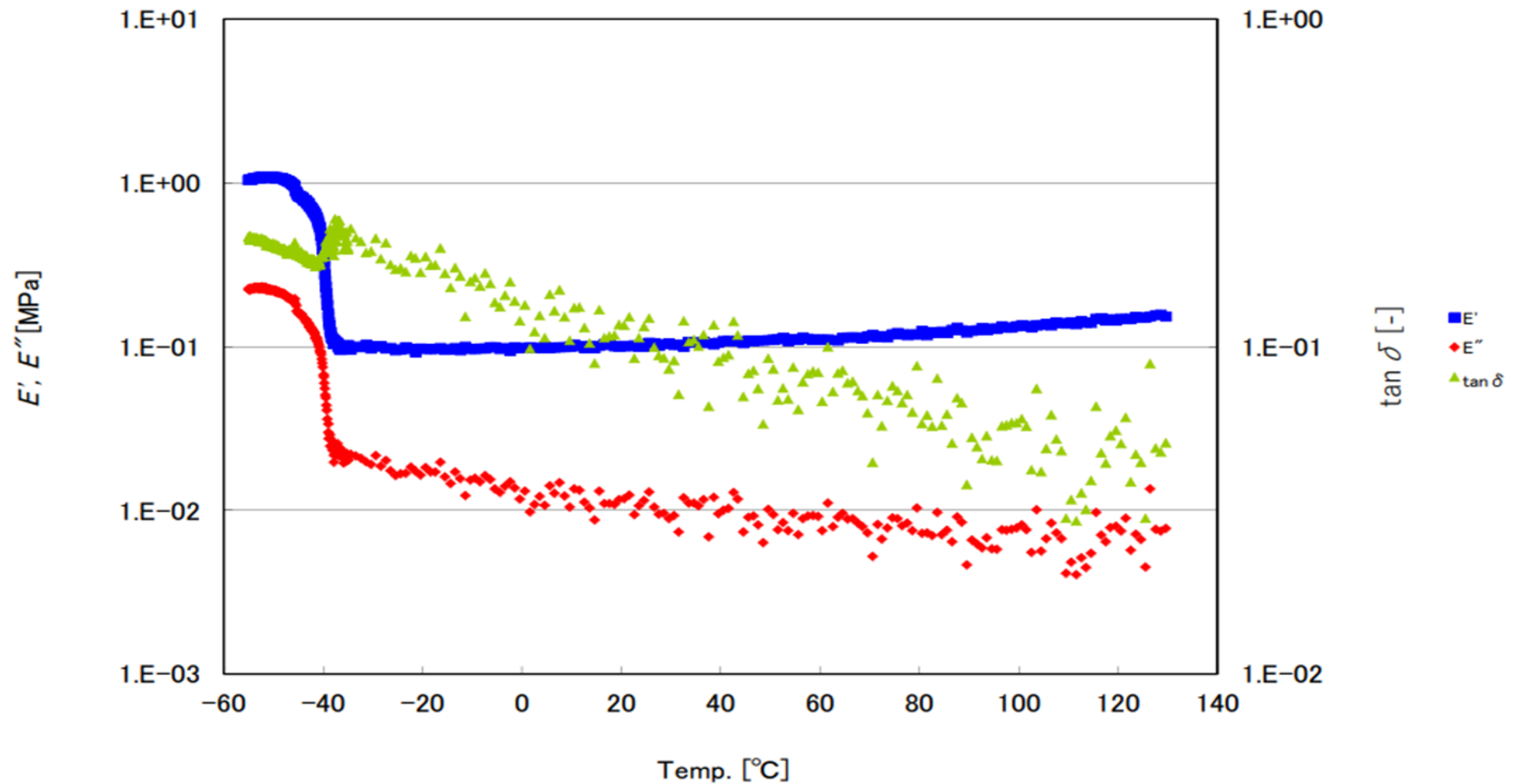
MGSi Properties (Ⅱ)

TMA



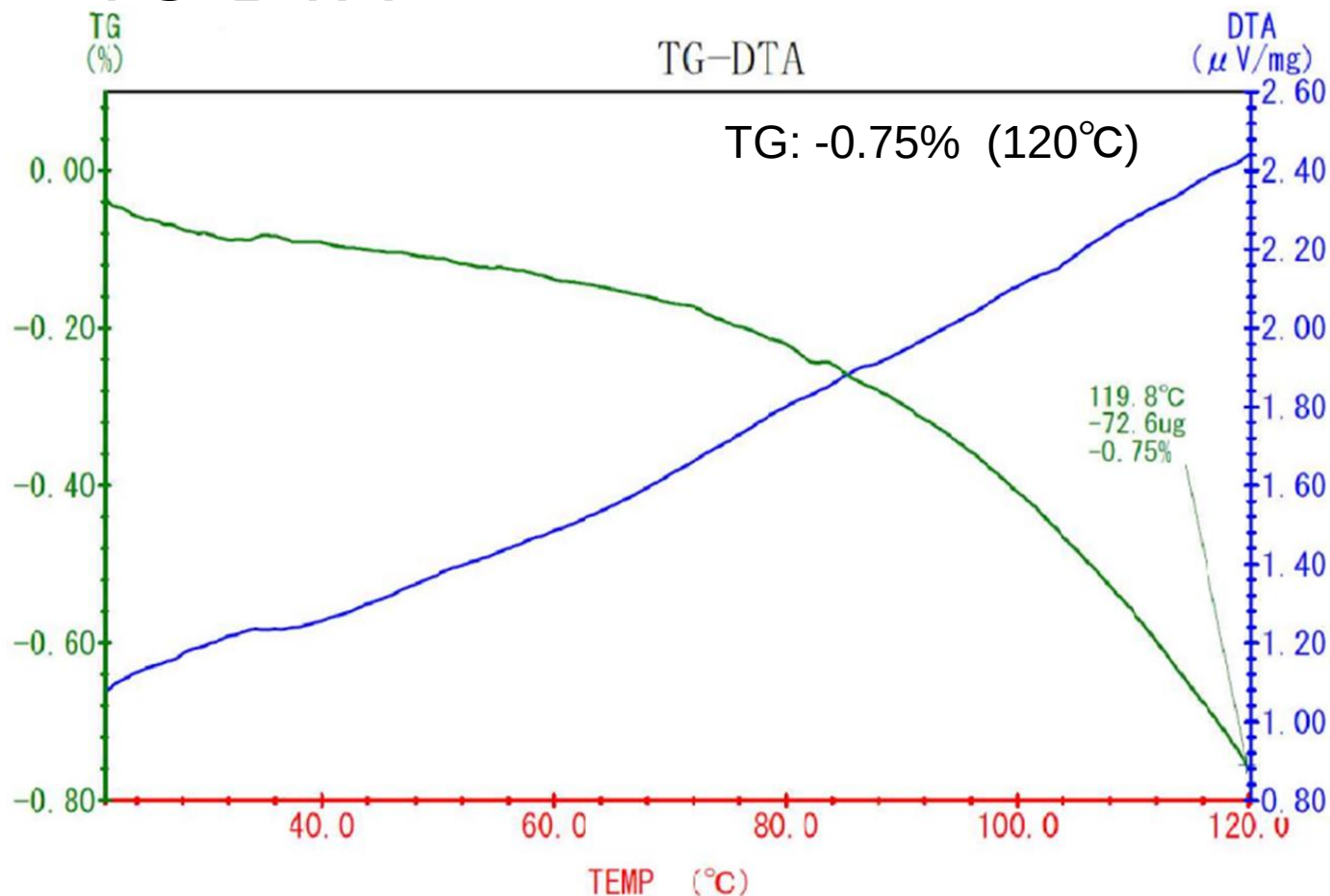
MGSi Properties (Ⅲ)

Viscoelastic properties



MGSi Properties (Ⅲ)

TG-DTA



TG... Measurement of weight change during temperature rise

Appears as a peak when there is a weight change due to evaporation, decomposition, etc.

DTA... Measure heat generation or endotherm during temperature rise

Appears as a peak when there is evaporation, decomposition, reaction, etc.

- Both TG and DTA peak between room temperature and 120° C did not occur

⇒ No change such as decomposition or reaction due to heat

- Since TG is -0.75% at room temperature to 120° C, The weight has a -0.75% decrease

⇒ It is speculated that the residue during manufacturing volatilized.

*Depending on the manufacturing method, the adhesive tape basically leaves a slight residue.

- Regarding outgassing measures

⇒ We have confirmed with the manufacturer whether it is possible to reduce the residue.

最後に End of presentation

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