

The Low-refractive-index Silicone OCA

α GEL

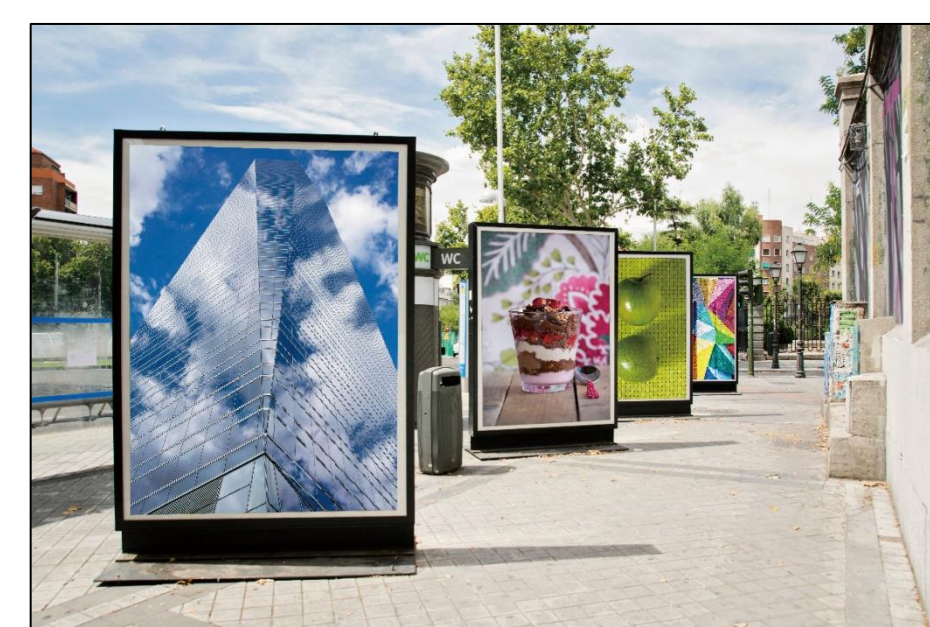
(*Optical Clear Adhesive)



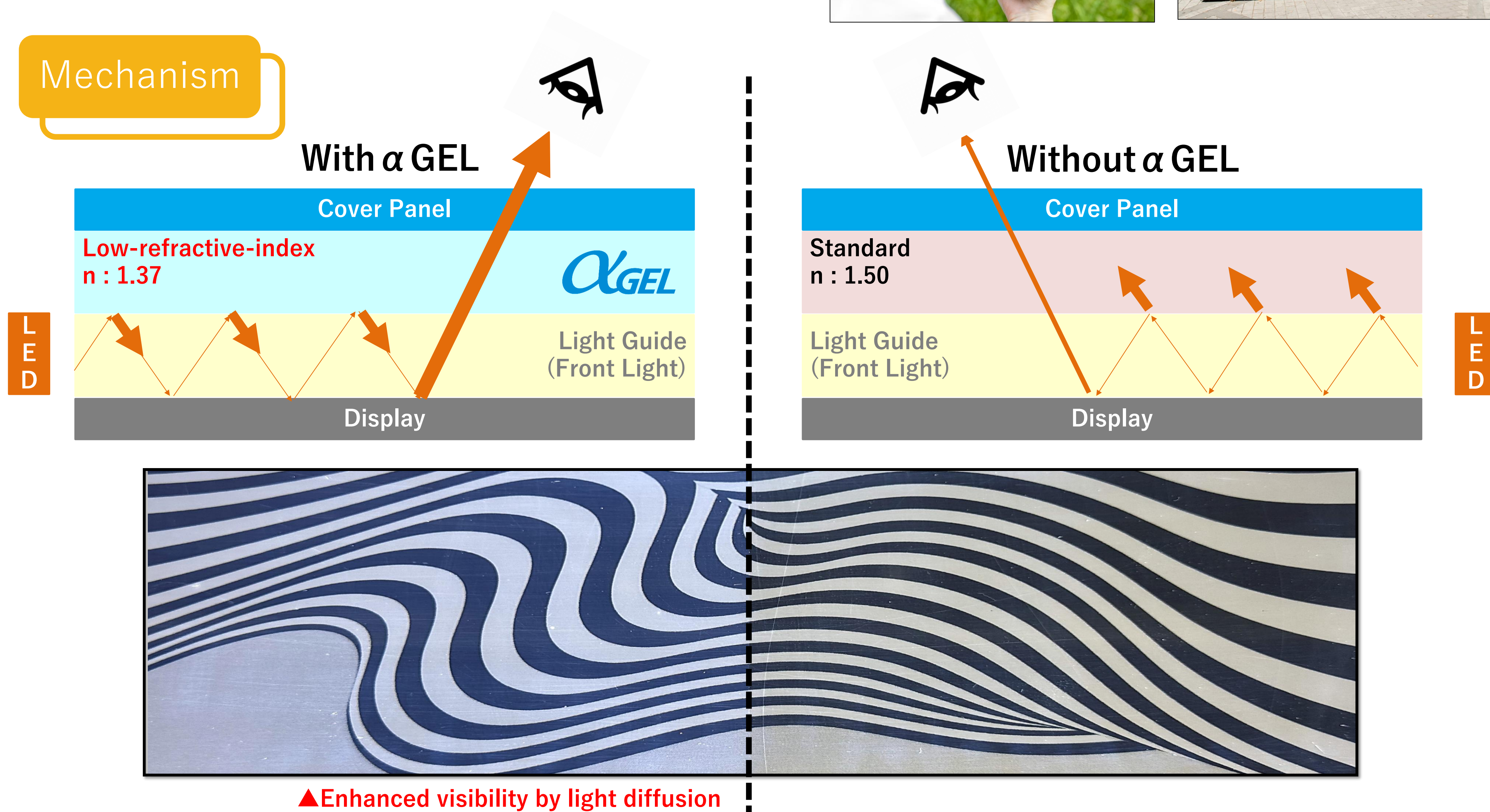
Features

- Silicone OCA with controlled refractive index 1.37.
- Automotive standard with long-term reliability and excellent optical properties.
- Enhancement in design flexibility to improve the performance for refractive displays.

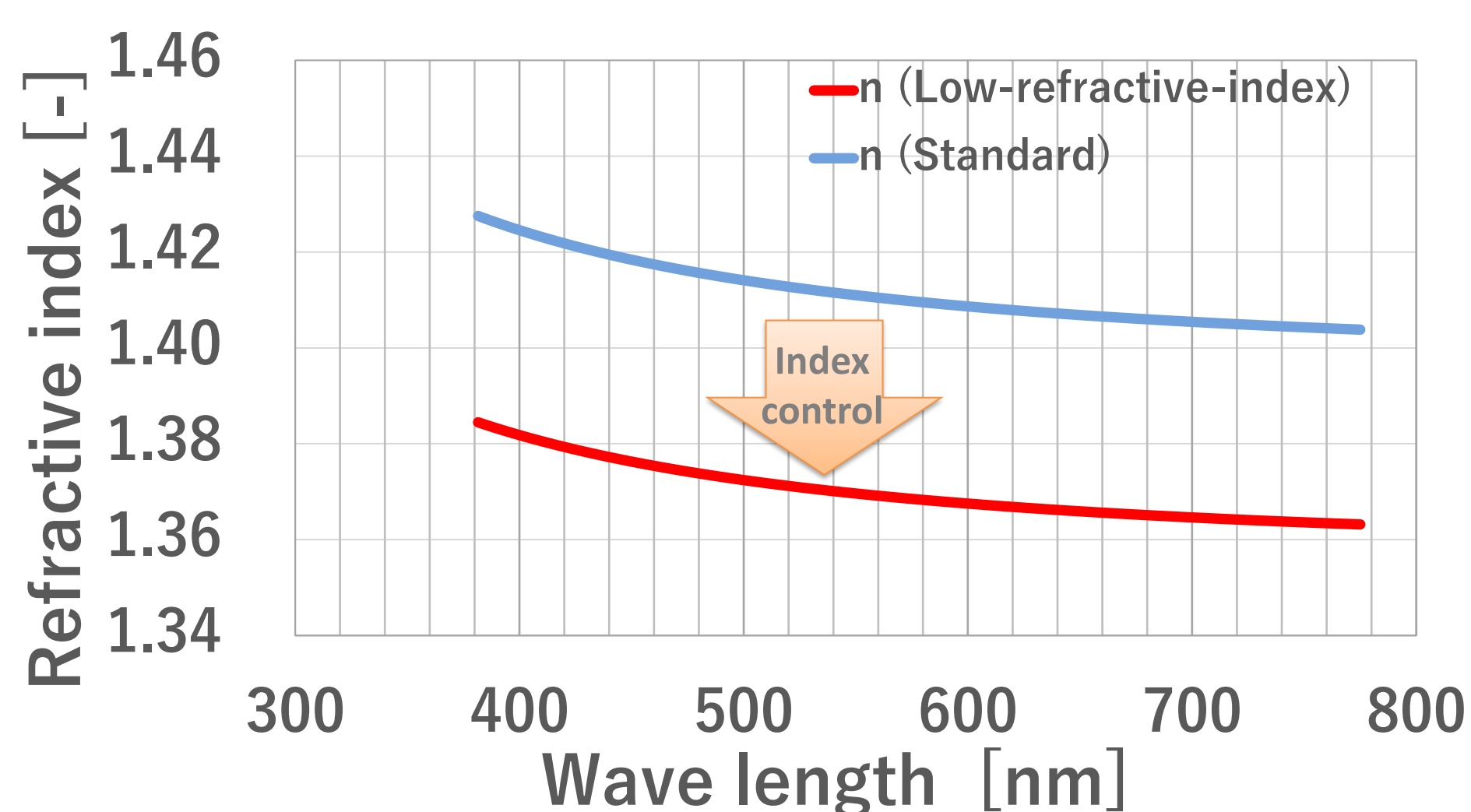
Application



Mechanism



Data



NEW

Items	Low-refractive-index Silicone OCA	Standard Silicone OCA
Refractive index (at 380, 550, 780 nm)	1.38, 1.37, 1.36	1.43, 1.41, 1.40
Thickness	175 μ m	175 μ m
Transmittance (at 380, 550, 780 nm)	92.2, 93.2, 93.6	92.9, 93.5, 93.8
Haze value	0.35%	0.24%
Adhesive strength (v.s. Polycarbonate)	4.2 N/20mm	3.1 N/20mm

UNDER DEVELOPMENT

Taica

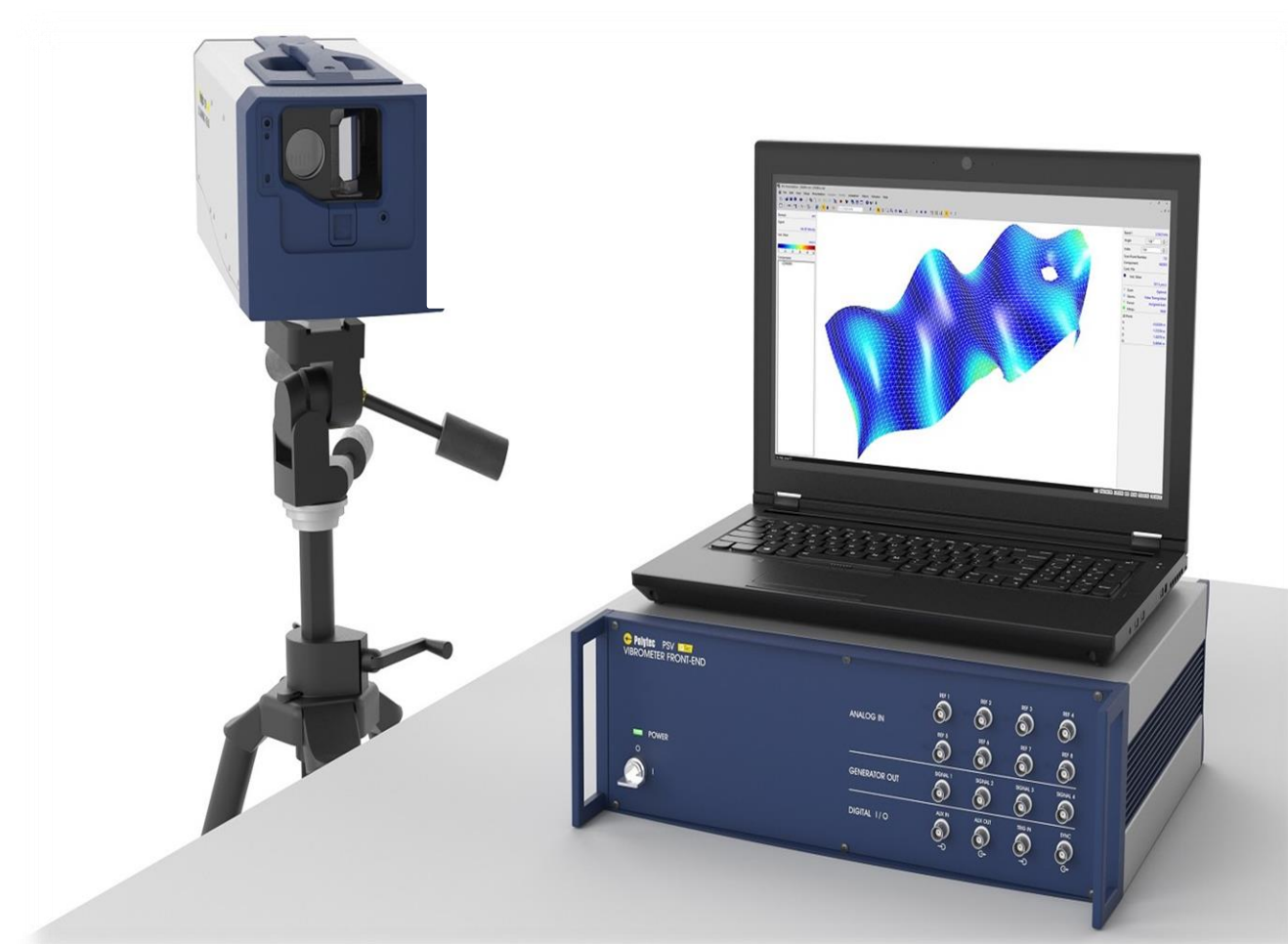
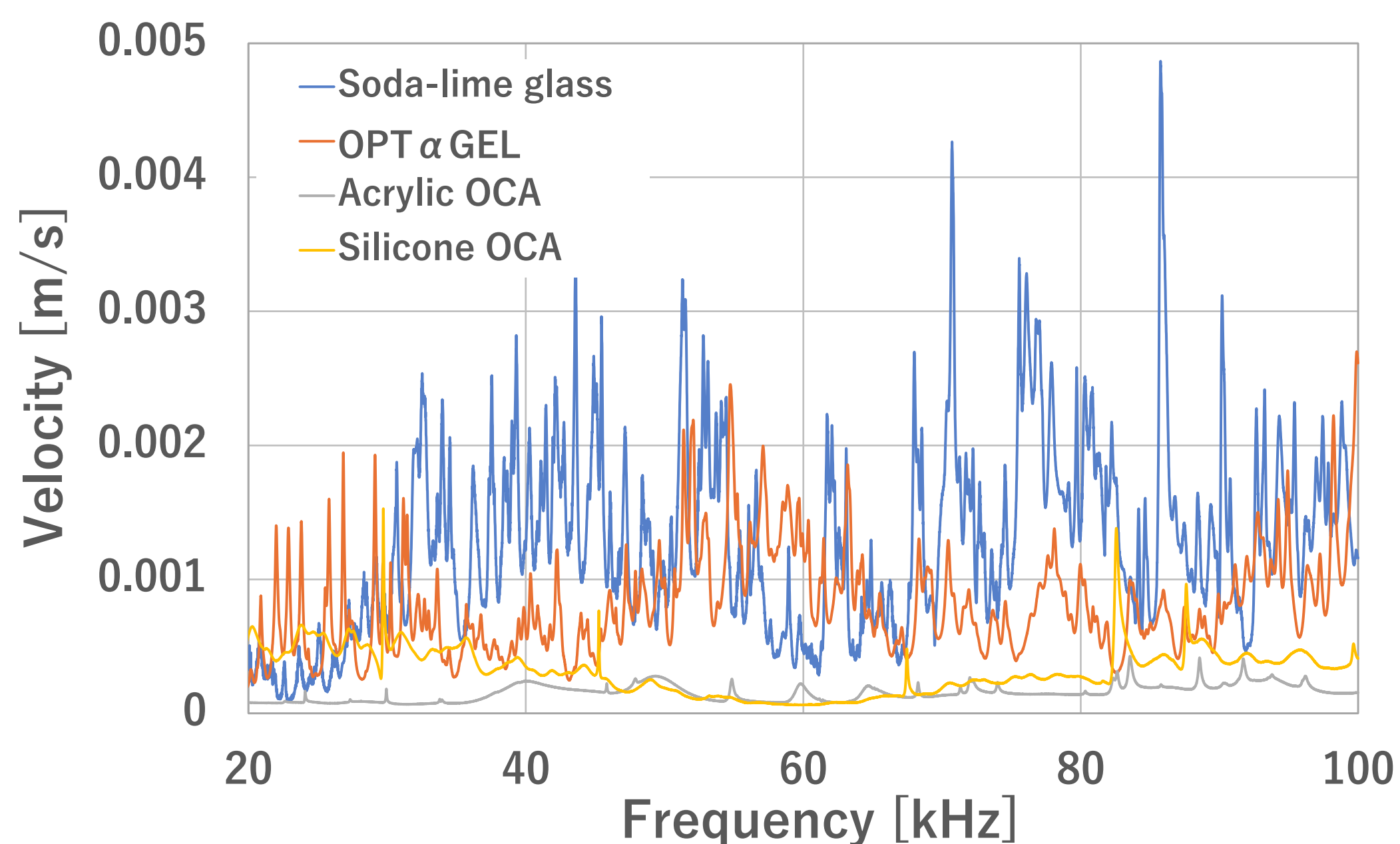
To achieve the finest Silicone OCA

(*Optical Clear Adhesive)



Vibration test

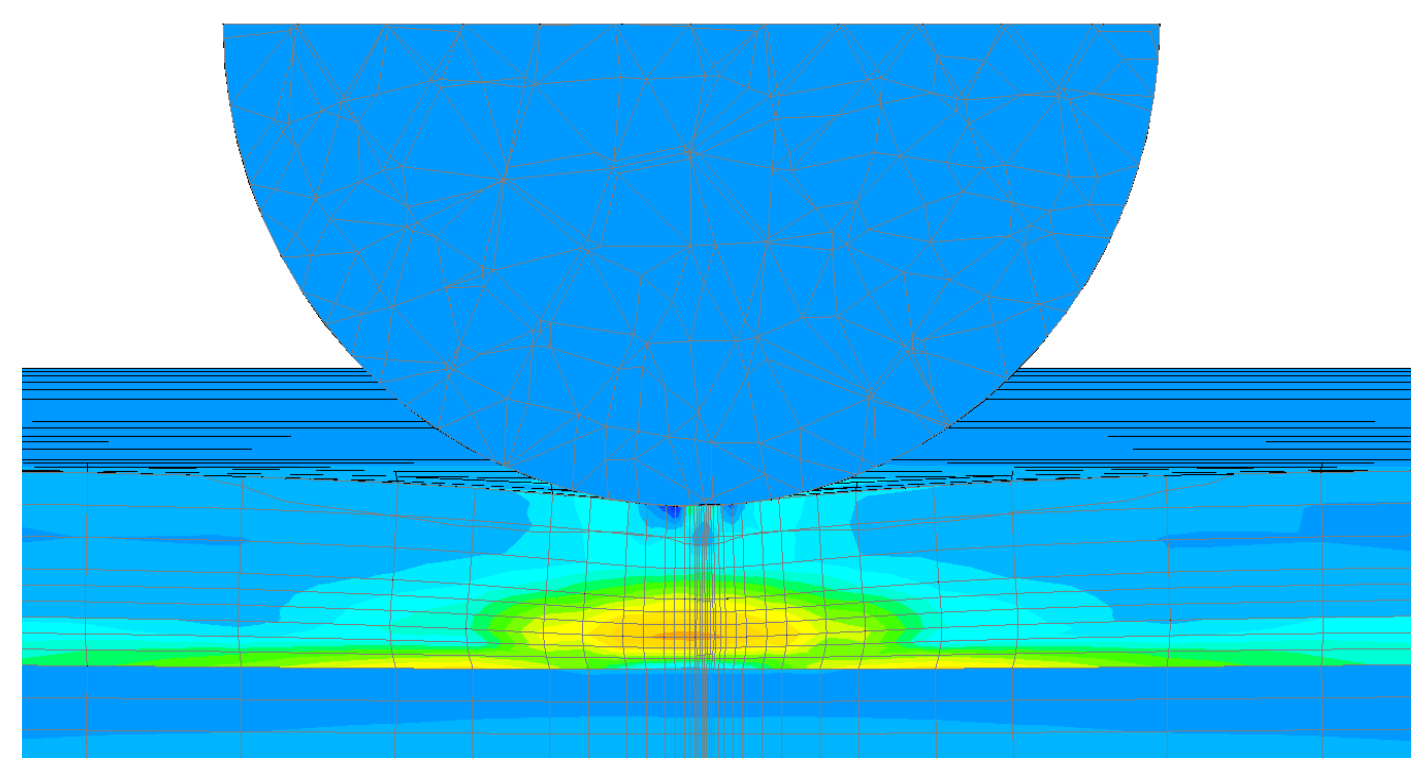
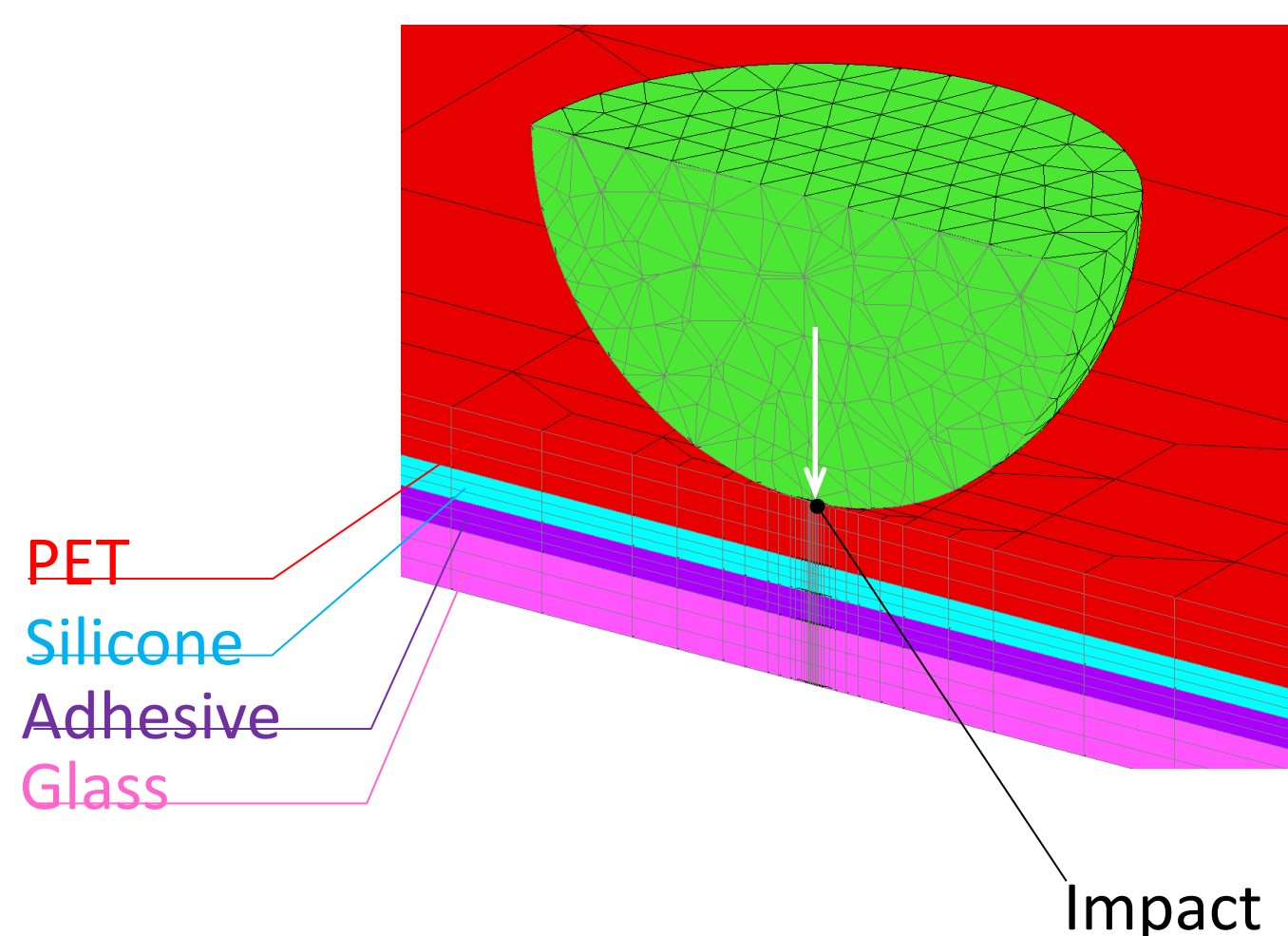
~Collecting data of vibration characteristics under wide range of frequency.



Scanning Laser Doppler Vibrometer

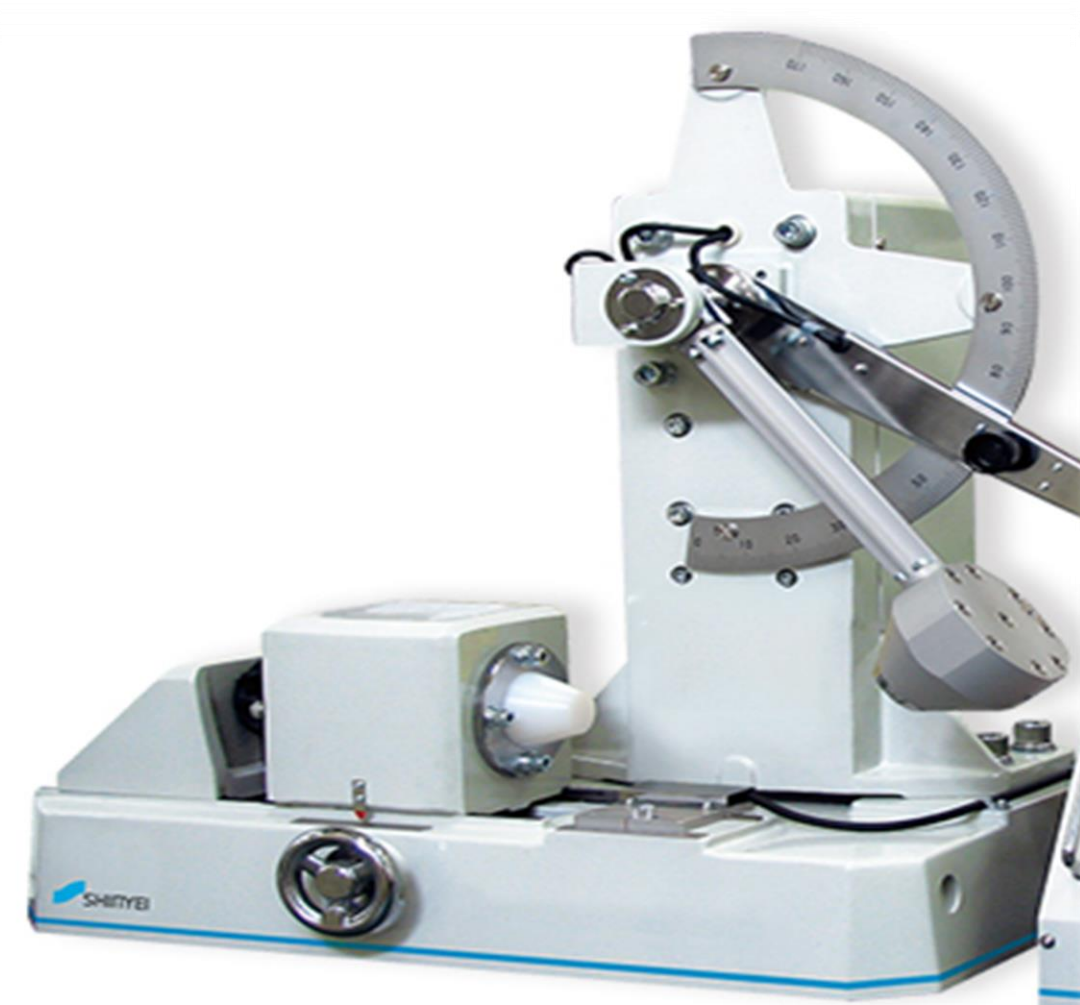
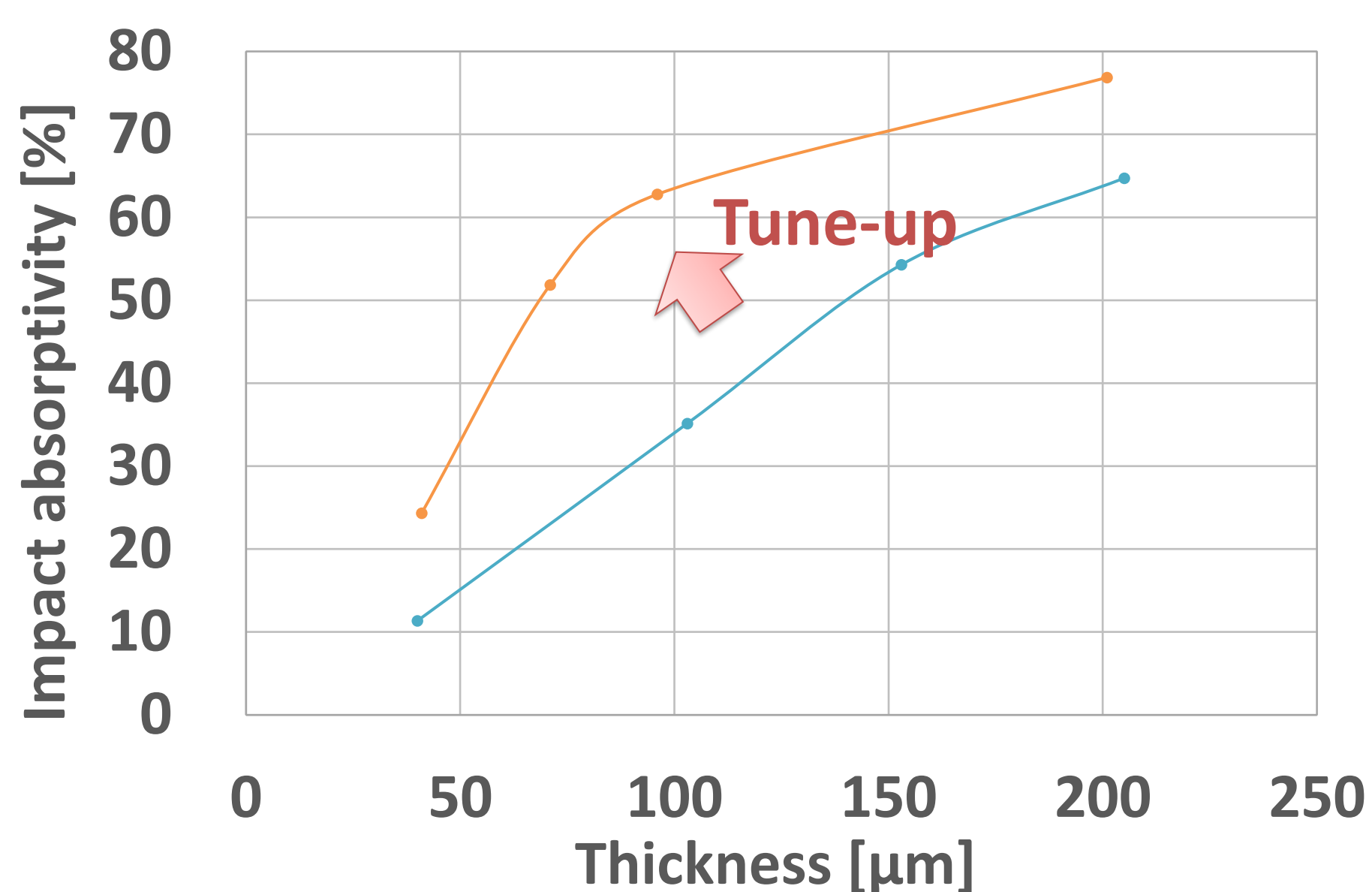
Simulation analysis

~Predicting material deformation under vibration impact.



Impact test

~Measurement evaluation of the shock absorption characteristic.



Pendulum Impact Testing equipment