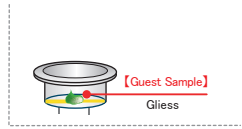


Comparison of viscoelastic materials

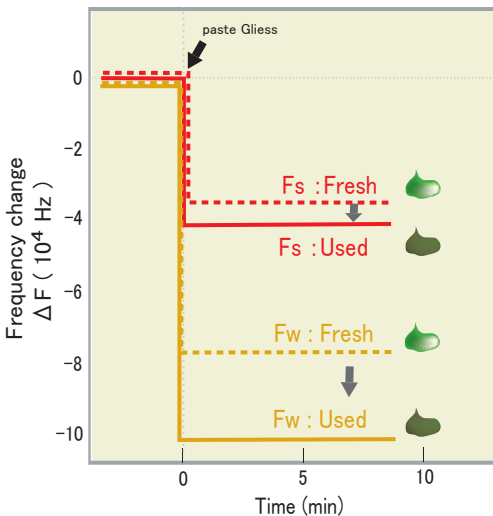
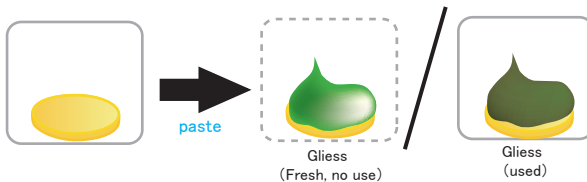
Methods

1. Measure basic frequency before sample addition.
2. Paste on electrode (volume is not so important)
($\tan \delta$ is calculated after stabilizing the frequency)

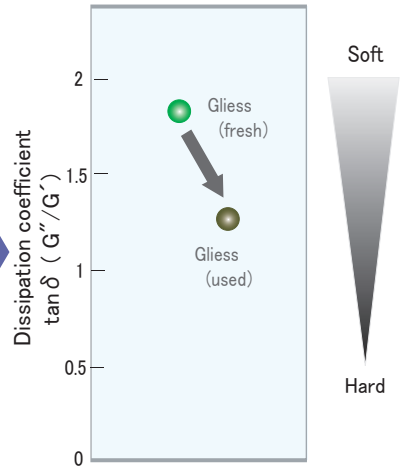


Example

Evaluation of deterioration of Gliess



Analysis



From the frequency F_s and F_w , storage modulus (G') and loss elastic modulus (G'') is calculated, and the dissipation coefficient ($\tan \delta (G''/G')$) is evaluated.

Softness ($\tan \delta$) of Gliess is decreased after use.

Application

1. Viscoelastic(hardness) analysis of adsorbates and resins.
2. Viscoelastic monitoring during adhesive maturation.
3. Deterioration analysis by viscoelastic parameters.
4. Quality control of viscoelastic materials.
5. Characterization of stability of polymers.