Confidential

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Material for comfort

- SMP iFit - (SMP Dilatant-i)





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Characteristics of SMP iFit

We developed new material for comfort is \[SMP iFit \] (Patented).

The value (Dynamic tan δ) showing the recovery time when applying force is designed to be close to human skin.

Dynamic tan δ of [SMP iFit] is 0.3 \sim 0.6

Each part of human body viscoelasticity (Dynamic tanδ)

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Lower arm	0.43
Palm	0.47
forehead	0.51

Motoji Takahashi, Polymer Science and Technology Vol.33, 1984

Due to $\lceil SMP \ iFit \rfloor$ has Dynamic tan δ (vibration absorbing property) close to human skin, when used in a part that touches the human skin, it can be realized natural comfort and felt comfortable.

When used in earphones, etc., it is possible to achieve a better fit and high sound insulation, despite being silicone-based.



Biological safety test result

The result of Biological safety test for SMP iFit is follows.

Cytotoxicity test	non-cytotoxic
Skin sensitization test	non-sensitizer
Intradermal reaction test	non-reactive





Assumed applications

[SMP iFit] is expected to be utilized in various ways including the following applications.











