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Touch Feeling Evaluation of Sun Visor for Automobiles

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Abstract: A sun visor has been used only for the purpose of interrupting direct sunshine. Investigation, therefore, has not been made to be on the feeling of touch of the sun visor. In this study, the feeling of touch of sun visor installed in the present automobile was investigated. To clarify the relation between the sense of touch and the mechanical and physical quantity of the sun visor, prototype products of the sun visor of the same shape were made. Surface characteristics and cold feel characteristic of materials were measured by the KES system. In addition, we investigated the relation between the surface property and the sense of touch of various materials. The correlation between favorability and WC, RC, SMD was high on the sun visor prototype. As a result, it was clarified that materials whose surfaces were very smooth and soft were favorable. Those materials consist of leather and moquette. Conversely, the material sensed hard was not favorable. The relation between the mechanical and the physical properties of various materials, and the favorability was able to be approximated by the equation (1).

$$\text{Favorability} = 2.482 + 0.02791LC + 0.293WC - 0.264RC + 0.0688MIU - 0.0966MMD + 0.0253SMD - 0.0288q_{max}(1)$$

Key Words: [Sun visor](#), [KES system](#), [Hand evaluation](#), [Feeling of touch](#)

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