

# Elasticity / Soft feeling

Proper softness / elasticity that reminds you genuine leather

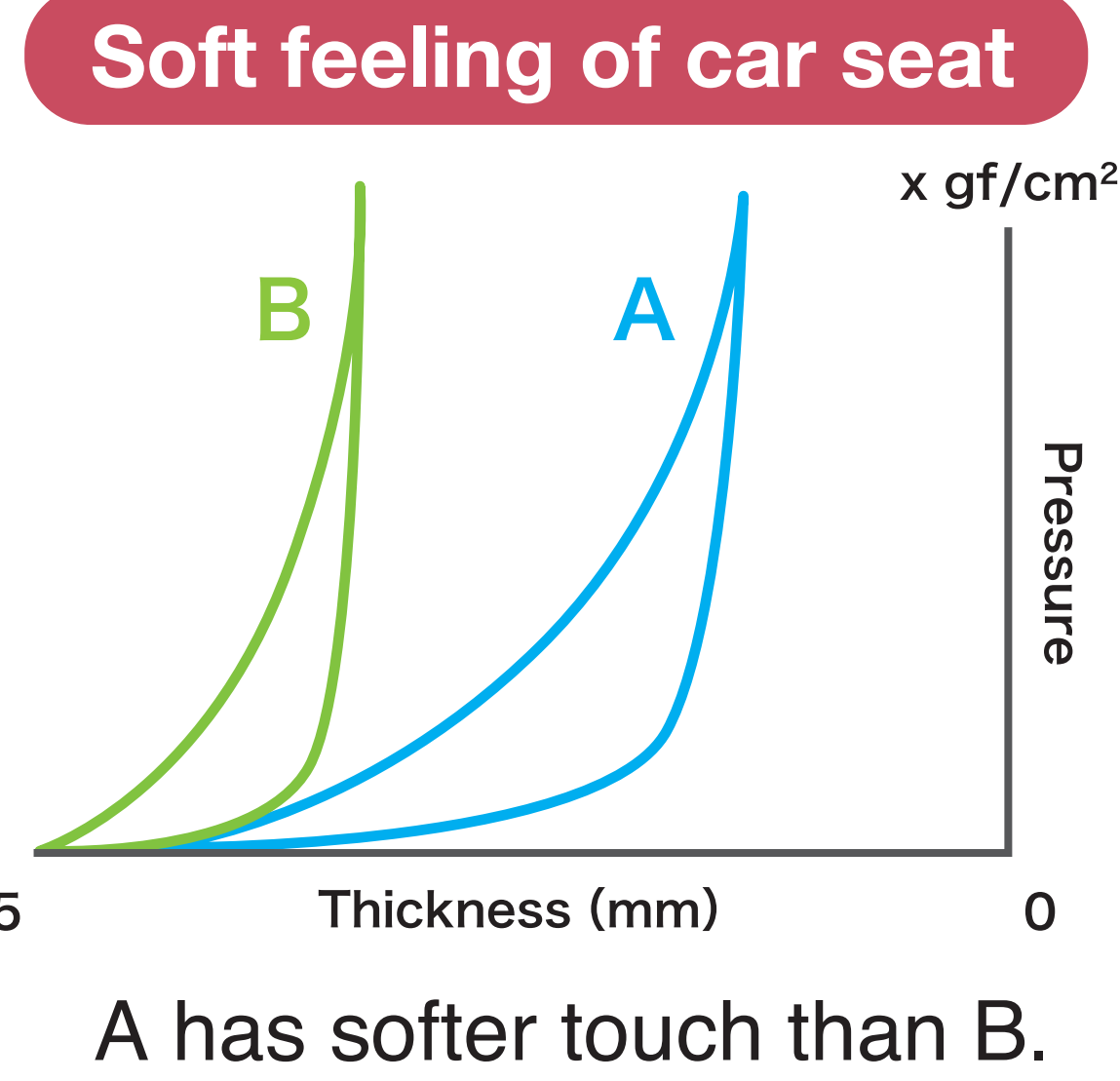
## Compression Tester KES-G5

### Obtainable Data

Linearity of Compression Work of Compression  
Recoverability of Compression

### Example of measuring position

Seat Floor mat Arm rest Center console  
Parking brake Steering Shift knob Door trim



# Breathability and Permeability

Silky and breathable sitting feeling that provides you a comfortable space

## Air Permeability Tester KES-F8

### Obtainable Data

Ventilation resistance

### Example of measuring position

Center console Parking brake Steering  
Shift knob Fabric Seat belt

# Texture measurement

Texture full of a quality appearance

Tensile and Shear Tester KES-FB1-A

Pure Bending Tester KES-FB2-A

Compression Tester KES-FB3-A

Surface Tester KES-FB4-A

### Obtainable Data

HV/THV  
Primary Hand Value / Total Hand Value

### Example of measuring position

Fabric / leather

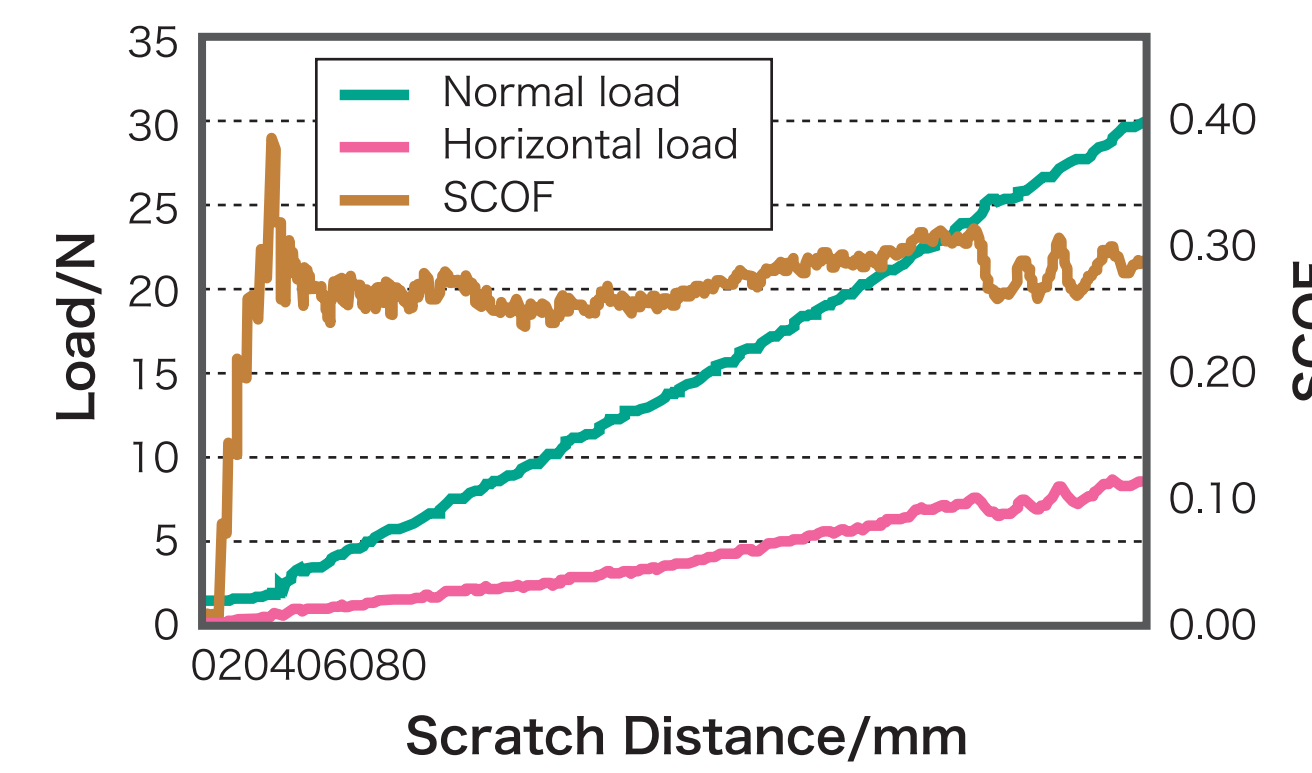
# Scratch resistance

Quantitative assessment data instead of visual evaluation

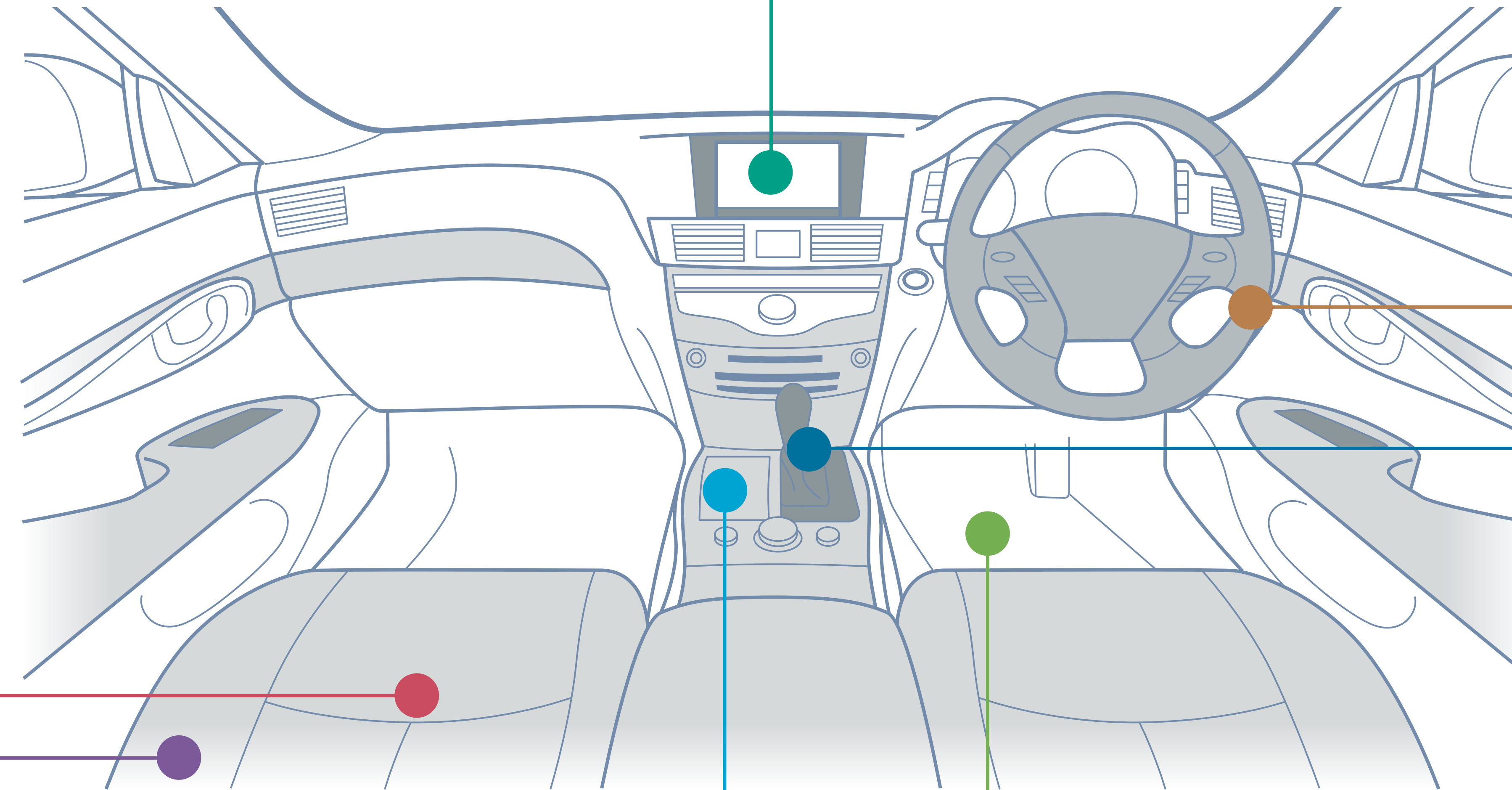
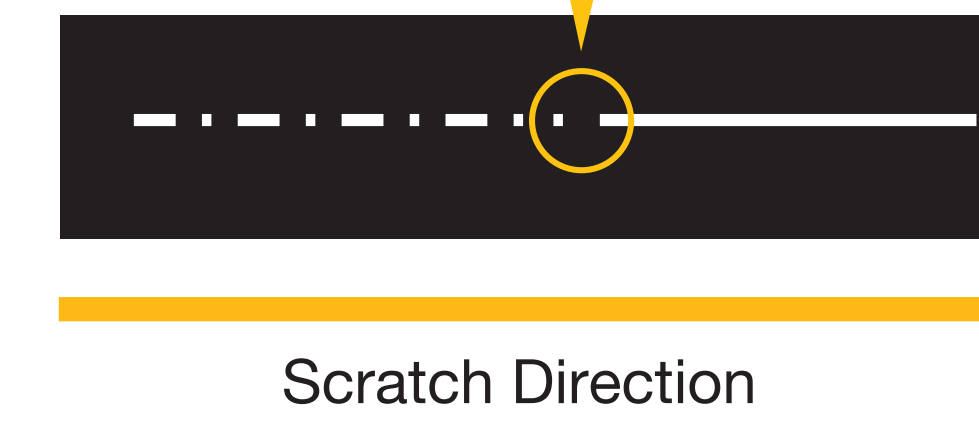
## Scratch Tester KK01, KK02, KK03

### Example of measuring position

Body Instrument panel Automotive display



39N is applied at 40mm from the starting point!  
-- You can find it from the measured data.



# Warm-Cool feeling / heat retention properties

A cool feeling or warm feeling through touching skin

## Thermo Labo KES-F7, FR07

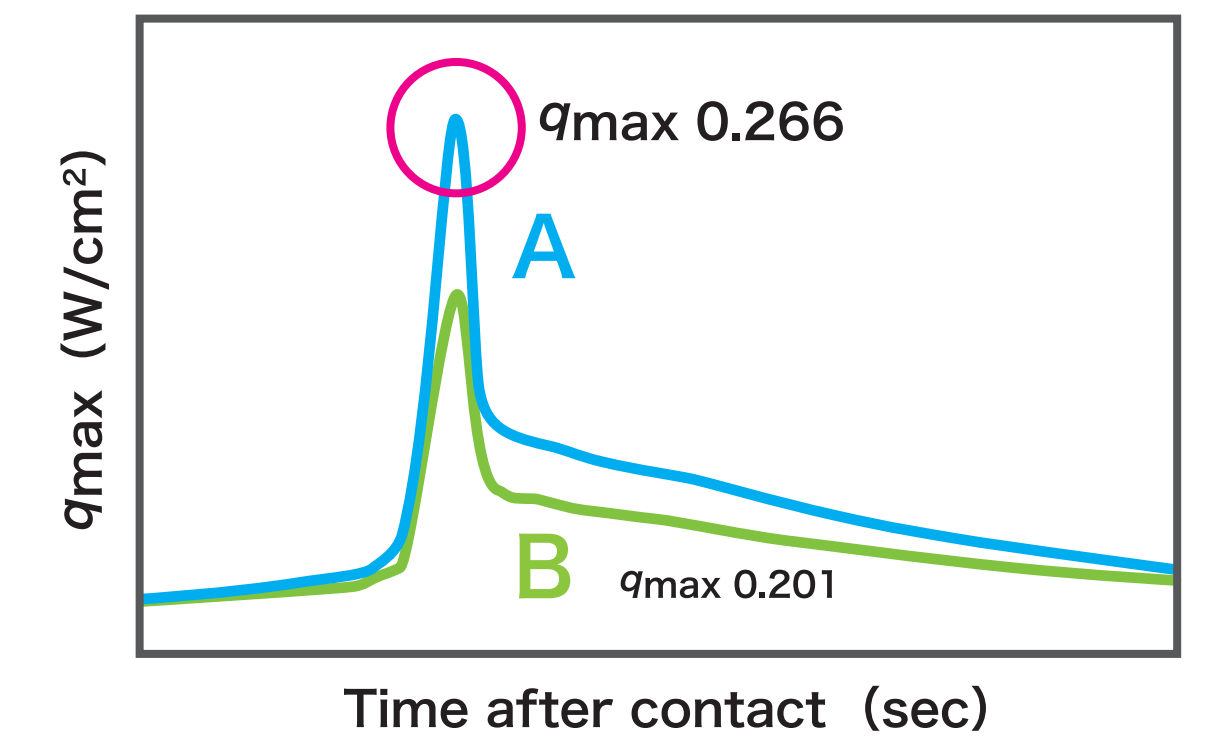
### Obtainable Data

Measurement of  $q_{max}$   
Thermal conductivity  
Heat retention properties  
Data derived from FR07 is  $q_{max}$ .

### Example of measuring position

Shift knob  
Parking brake  
Steering  
Door trim

### Pleasant cool feeling of interior materials



A feels cooler to your skin than B while contacting.

# Smooth feeling

Adequate smoothness that invites your hands to touch

## Friction Tester KES-SE, KES-SESRU

### Obtainable Data

Mean frictional coefficient  
Fluctuation of mean frictional coefficient  
Surface roughness

### Example of measuring position

Steering Sealing wall Shift knob Center console  
Parking brake Instrument panel Door trim

# Separator puncture strength

For evaluation of separator piercing strength at very low loads

## Puncture Strength NDG5

### Example of measuring position

Battery separator

# Slippery feeling

A touch feeling that is fit in hand but properly slippery

## Friction Tester KES-SE, KES-SESRU

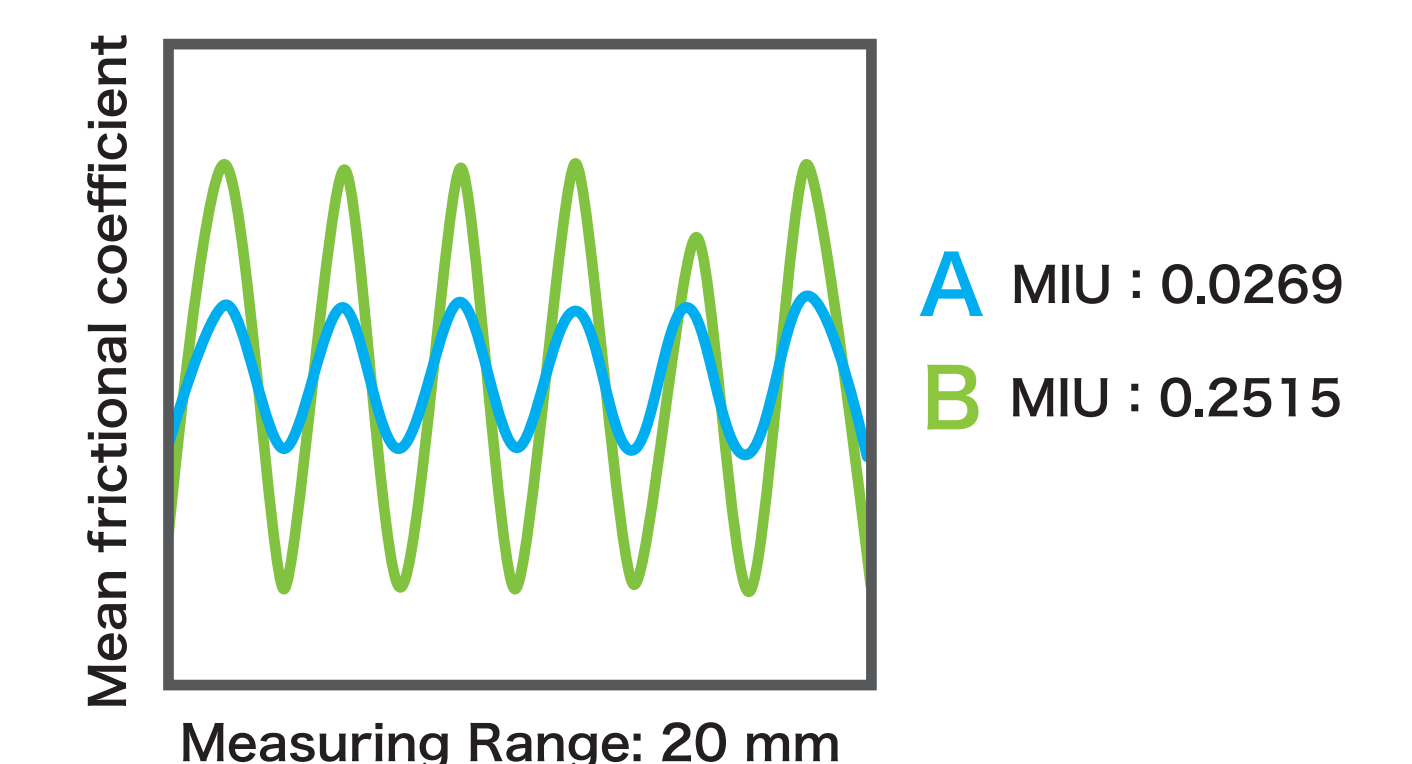
### Obtainable Data

Mean frictional coefficient  
Fluctuation of mean frictional coefficient  
Surface roughness

### Example of measuring position

Steering  
Parking brake  
Shift knob  
Seat belt  
Automotive display

### Comparison of touch feeling of shift knob



A feels smoother and more pleasant than B.