

Sumitomo Riko in response to CASE needs





Connected (C)

Traffic control system, communications equipment develop





Suggestion

(1) Film decoration ornament

Shared(S)

Use of unspecified flying range increase





Suggestion

High reliability to be worthy of one flying range (existing business domain)

Autonomous (A)

Driver state distinction. the living in the compartment





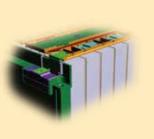
Suggestion

- 2 Driver Monitoring System
- **3** Compartment Space Device

Electric (E)

Substitution to parts to motorize, commoditizing





Suggestion

- 4 High Performance Heat Insulation 「Finesulight™」
- 5 Heat Insulation for Battery Cell





High Performance Heat Insulation FinesulightTM

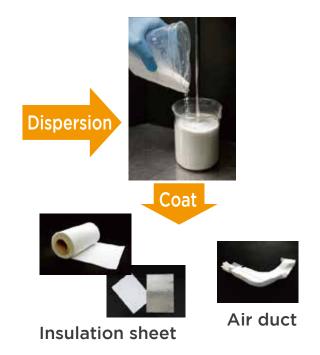
Description



Sumitomo Riko have developed a high performance heat insulation that is very thin and flexible. By applying to interior items, this heat insulator can reduce heat transfer in and out of a vehicle, thus contributing to improving both fuel effiency and comfortability.

	Heat Insulator
	Utilizing composition technology, form a paint coating with insulation filler
Structure	5mm Insulation filler Air molecule Silica Particles
Cavity Diameter	50nm (i/e prevent convective heat transfer)
Heat conductivity	0.020W/mK (Paint film) Lower heat conductivity than air

Can be applied in limited space





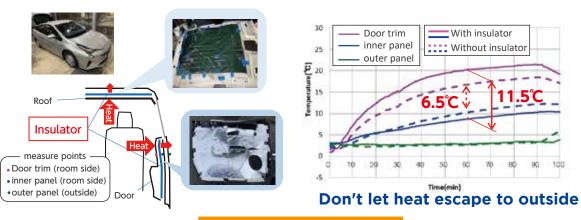


High Performance Heat Insulation 「Finesulight™」

Characteristics

Heat insulation vehicle test

Measured temperature change with and without insulation. (Condition: outside temperature 0°C/heater usage)



Simulation result

3.6% Reduction of heater work load 10.0% Reduction of heat loss from roof, door, and windshield.

2% improvement of electricity efficiency



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Application



- 1)Roof liner
- (2) Door panel
- (3) Seat heater
- (4) Air duct
- Interior parts air conditioning parts and battery parts for automobiles
- Home appliances, Electronic components
- Cool box, Insulation box
- Residential use

Back

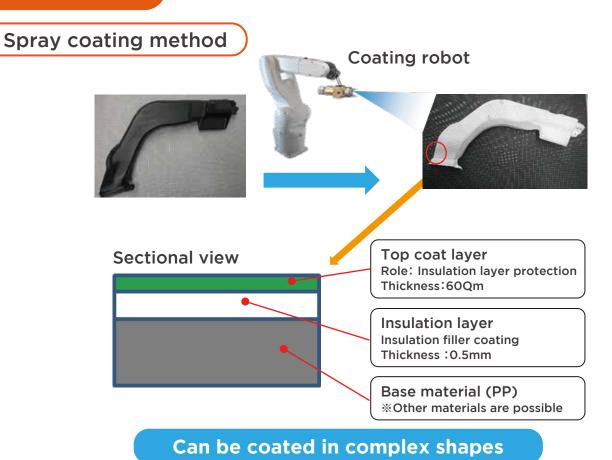
SUMITOMO ELECTRIC GROUP



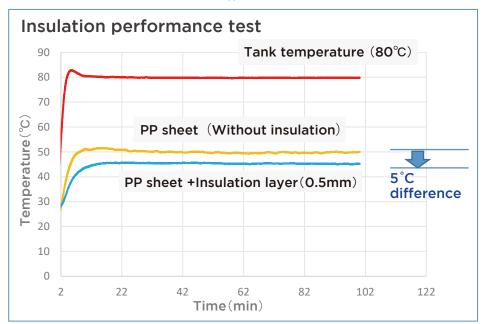


High Performance Heat Insulation [Finesulight]

Characteristics



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Insulation effect when heated to 80°C Insulation coating layer (0.5mm) has the effect of reducing 5°C.