



Heat-ray Shielding Fiber

RAY SHIELD™

Why is the summer sun HOT?

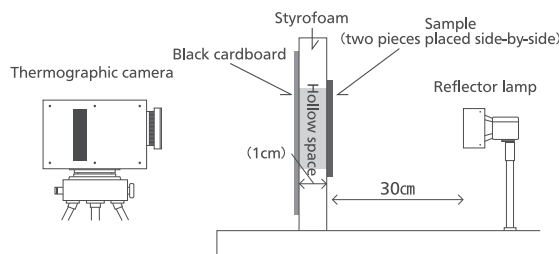
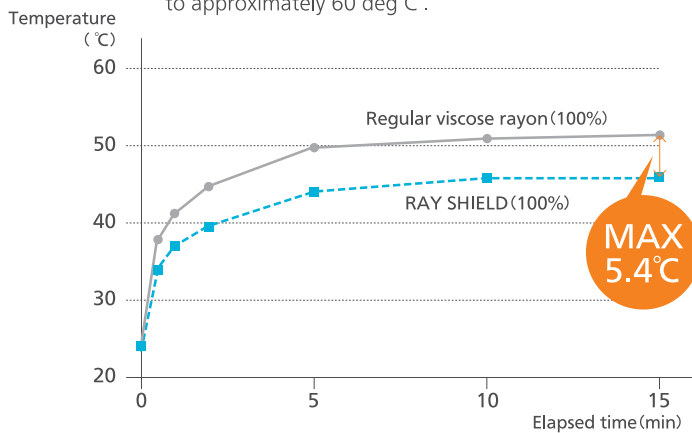
Among other lights from the sun, the light called near-infrared light has a heating effect. This near-infrared light makes us feel hot by warming up our clothes.

RAY SHIELD, with functional agents kneaded in the fiber, cuts near-infrared light in sunlight and inhibits the temperature rise in clothes.

DATA1

Heat-shielding Test

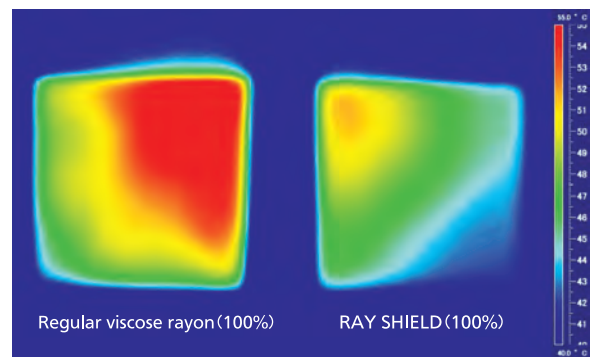
The direct summer sunshine is considered to raise the temperature of the back side of fabrics to approximately 60 deg C .



DATA2

Performance Comparison Using Thermography

Thermal imaging after 15 minutes of irradiation of reflector lamp



Test method: Our own evaluation method
 Test sample: Spunlace non-woven fabric of 130g/m2 weight
 Test environment: 20 deg C ±2 deg C, 65%RH
 Test condition: Irradiate test sample with a 500W reflector lamp at 30 cm distance from it and observe the temperature change of a black cardboard on the other side with a thermographic camera.
 DATA1: Measure the surface temperature change of a black cardboard twice with a thermographic camera, switching the two pieces of sample in the second round.
 DATA2: Take a thermal image of the surface temperature of a black cardboard with a thermographic camera after 15 minutes of irradiating.

Please note that measurement values may vary depending on fabric composition. Upon commercialization, please confirm each value.

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