



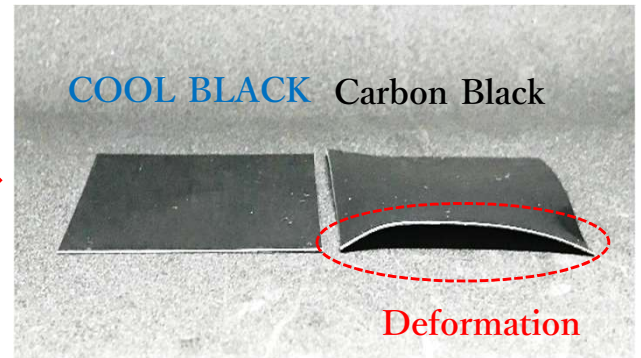
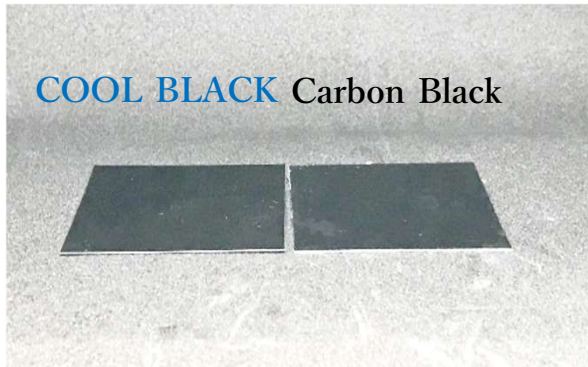
Functional Black Processed Pigment

COOL BLACK

Feature

- **COOL BLACK** is processed pigment for PVC with “infrared (IR) reflection”
- Having excellent “heat storage prevention function”

Characteristic

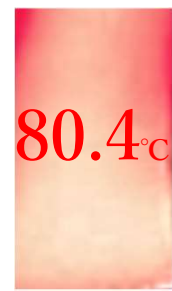


- Temperature measurement result by thermography -



COOL BLACK

Carbon Black



COOL BLACK

Carbon Black



※PVC molding used COOL BLACK or Carbon Black are irradiated with IR lamp and measured the surface temperature.
(Irradiation distance : 30 cm , Room temperature : 20 °C , Irradiate time : 10 min)

○ Why is it deformed by IR ?

- Carbon Black absorb IR and store heat
- Hard PVC molding may deform temperature (65-80°C)

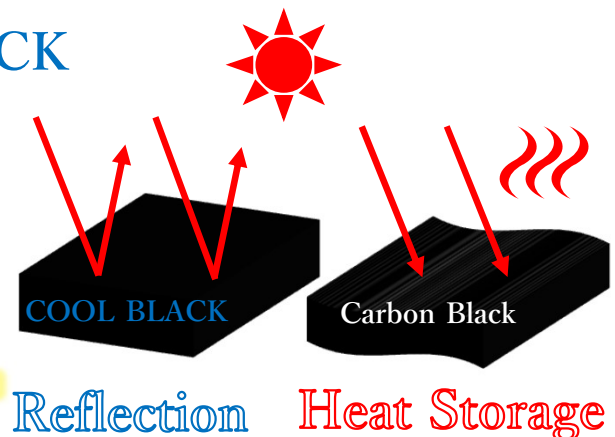
IR reflection effect by using COOL BLACK



Temperature rise suppression effect



Prevent deformation of PVC moldings



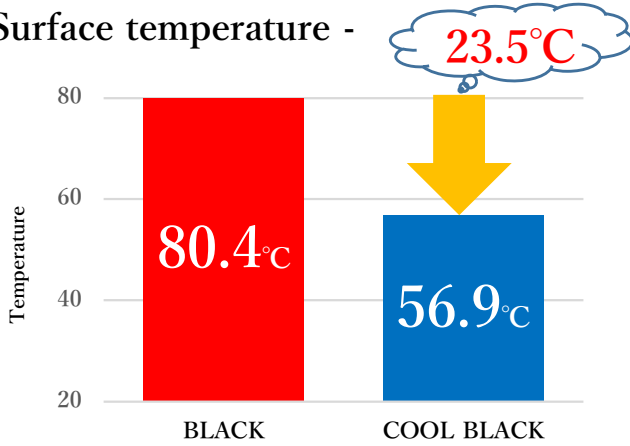
Heat storage prevention function can be added to various color

BLACK COOL BLACK

L*: 26.95 a*: -0.10 b*: -0.55

L*: 27.13 a*: -0.03 b*: -0.82

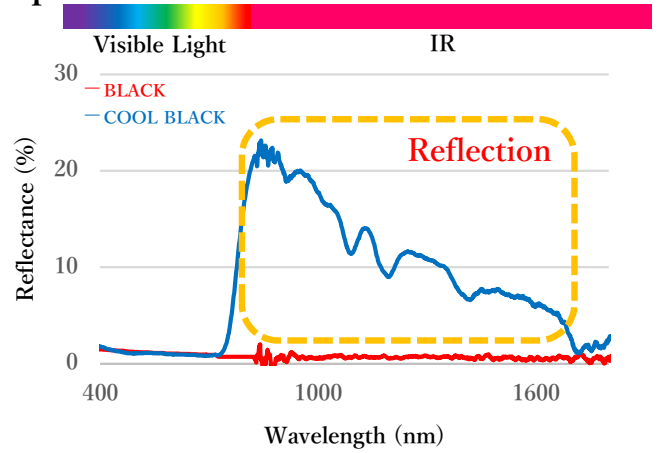
- Surface temperature -



※IR lump irradiate

(Irradiation distance : 30 cm , Room temperature : 20 °C , Irradiate time : 10 min)

- Spectral Reflectance -

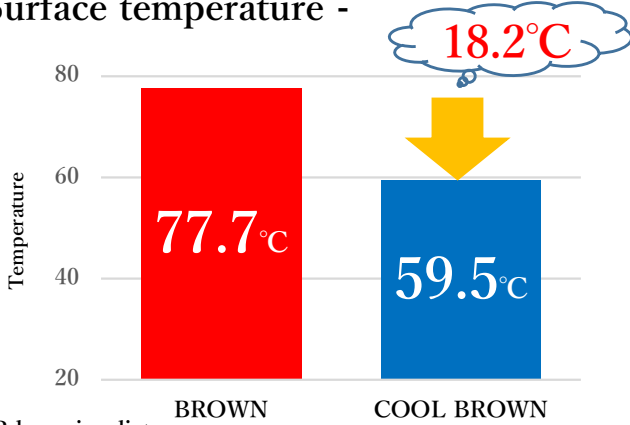


BROWN COOL BROWN

L*: 33.00 a*: 1.60 b*: 1.79

L*: 32.68 a*: 1.65 b*: 1.78

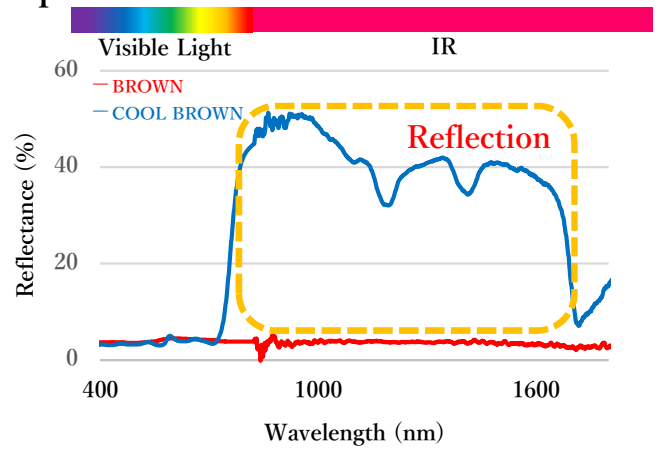
- Surface temperature -



※IR lump irradiate

(Irradiation distance : 30 cm , Room temperature : 20 °C , Irradiate time : 10 min)

- Spectral Reflectance -

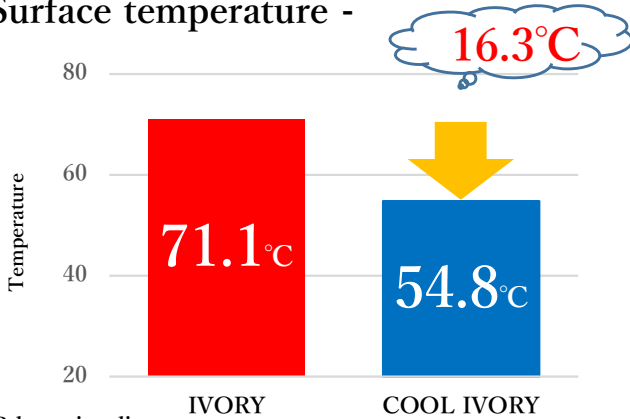


IVORY COOL IVORY

L*: 70.36 a*: 1.14 b*: 7.10

L*: 70.52 a*: 0.99 b*: 6.84

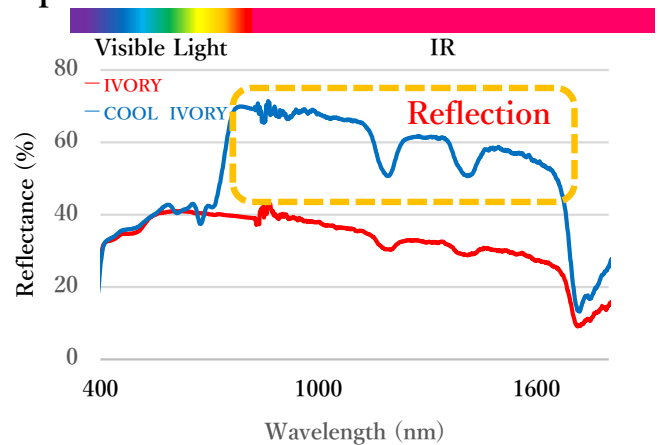
- Surface temperature -



※IR lump irradiate

(Irradiation distance : 30 cm , Room temperature : 20 °C , Irradiate time : 10 min)

- Spectral Reflectance -



【Note】

Data on this page can't be used for specification purposes.
Please evaluate the sufficient performance of the sample under the conditions of use.

