

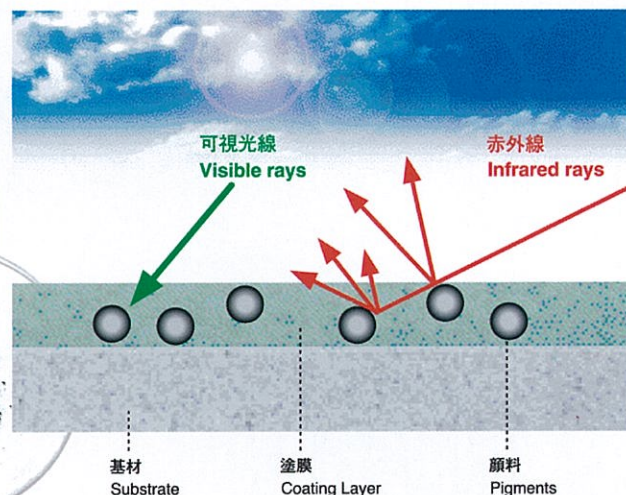
近赤外線反射型顔料



TOKAN MATERIAL TECHNOLOGY Co., Ltd.

近赤外線
反射型顔料
Near IR Reflective
Pigments

近赤外線を効果的に反射し、太陽光線による温度上昇を抑制
CICP effective in reflecting Near IR - Mitigation of heat build-up by solar energy.



近赤外線反射型黒顔料

顔料本来の性能(可視光線の吸収)はそのまま、赤外線だけを反射。

TOMATEC Near IR reflective Blacks

CICP reflects Near IR while absorbs visible rays.

Product Code	Color	Composition	CAS Number	Color Index Generic Name	Particle Size (μm)	TSR %*
42-703A	Black	Cr ₂ O ₃ :Fe ₂ O ₃ :CoO	68909-79-5*	Green 17	1.8	24
42-706A	Black	Cr ₂ O ₃ :Fe ₂ O ₃	68909-79-5*	Green 17	1.7	23
42-707A	Black	Cr ₂ O ₃ :Fe ₂ O ₃	68909-79-5*	Green 17	0.9	24

*TSR: Total Solar Reflectance/日射反射率

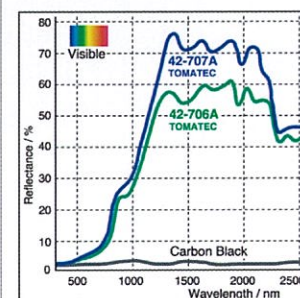
Applications



- ◎蓄熱防止
- ◎冷房効率の改善
- ◎屋内の快適性の向上
- ◎熱変形・熱膨張の防止
- ◎製品寿命の向上
- Heat build-up mitigation
- Lowering air conditioning costs
- Improving comfort levels for building occupants
- Less thermal distortion and expansion
- Extending service-life

分光反射率曲線

-Visible Near IR reflectance spectra

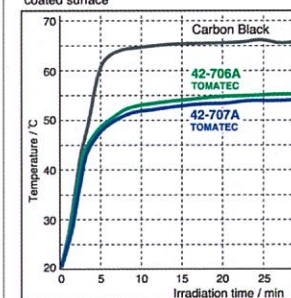


一般的な黒顔料に比べ、700~2500nmの領域で高い反射を示す。

Near IR reflective blacks show higher reflectance rate in the wavelength region from 700 to 2,500 nm

遮熱測定結果(塗膜裏面)

-Heat shielding effect: Temperature of backside of coated surface



一般的な黒顔料に比べ、約10℃の温度上昇を抑制。

Near IR reflective blacks lower the temperature by about 10°C

カラーバリエーション TOMATEC Near IR Reflective Color

