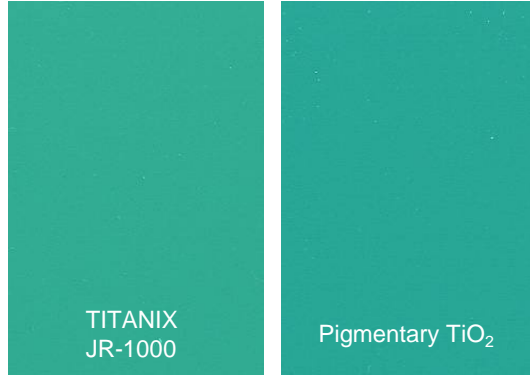


Heat blocking effect of TITANIX JR-1000 in moss green colored film

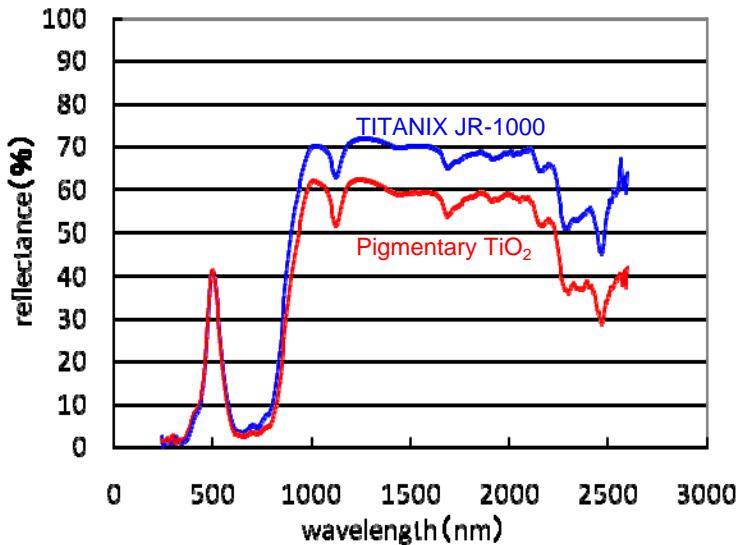
● Moss green colored film sample



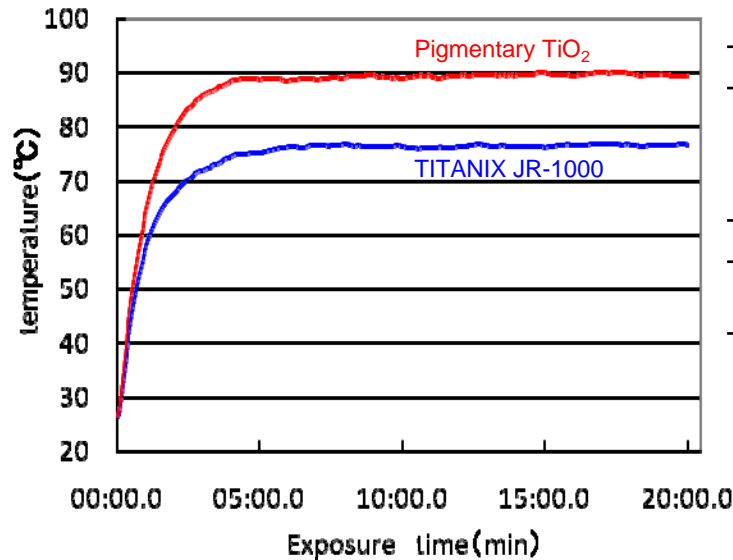
● Color pigment content, film color, & solar reflectance

	Pigment content(%)		Hunter color values			Munsell color values			Solar reflectance (%)		
	TiO ₂	green	L	a	b	H	V	C	300 - 780 nm	780 - 2500 nm	300 - 2500 nm
TITANIX JR-1000	86	14	42.1	-31.7	2.7	0.3BG	4.8	9.2	19.1	56.6	33.8
Pigmentary TiO ₂	83	17	41.1	-32.0	0.1	1.8BG	4.7	9.5	18.3	47.3	29.0

● Reflectance curves



● Heat blocking test



● Moss green paint formulation & coating conditions

1) Paint formulation (Pigment concentration, 100 PHR)

Dispersion	Content (g)
Titanium dioxide & green pigment *1	50
Beckosol J-524 (solid content, 60%) *2	12
Xylene/Butyl alcohol = 8/2	12
Silicone for leveling	1
Letdown	Content (g)
Beckosol J-524 (solid content, 60%) *2	46.3
Super Beckamine J-820 (solid content, 60%) *2	25

*1 Phthalocyanine green pigment(CIBA-GEIGY)

*2 from DIC

2) Coating conditions

Coating method	Bar coater
Substrate	Tin free steel(20 x 20 cm)
Film thickness	40 μm