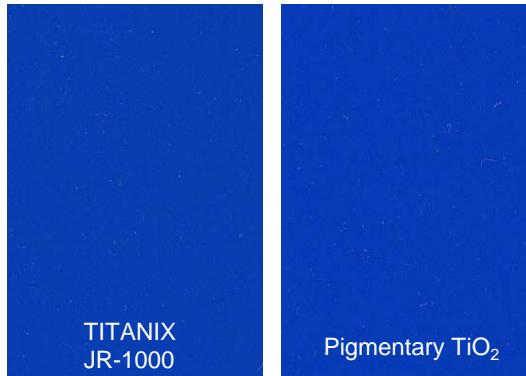


## Heat blocking effect of TITANIX JR-1000 in deep blue colored film

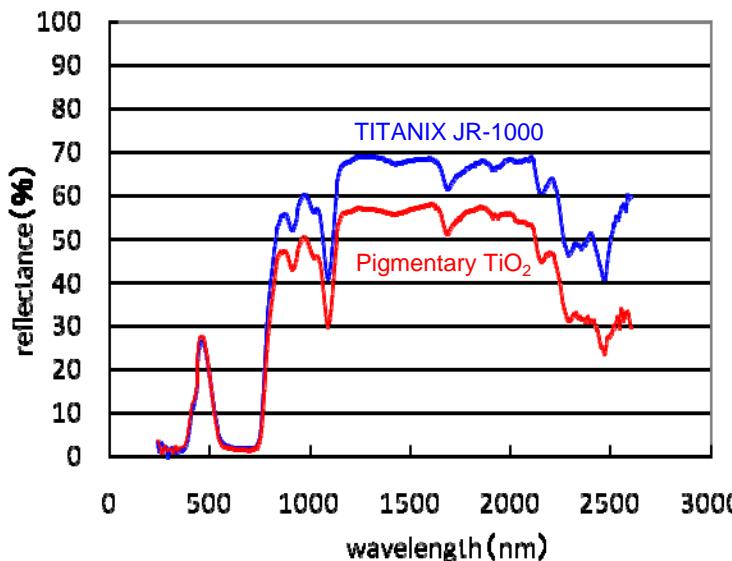
### ● Deep blue colored film sample



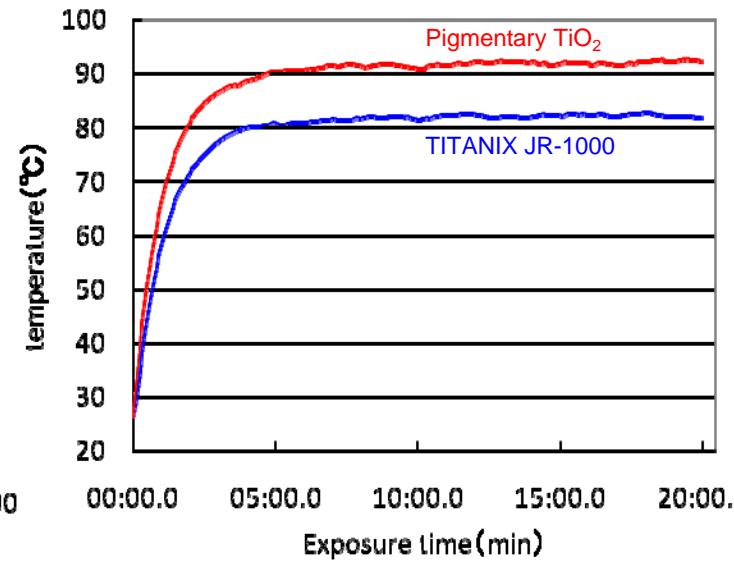
### ● Color pigment content, film color, & solar reflectance

	Pigment content (%)		Hunter color value			Munsell color value			Solar reflectance (%)		
	TiO <sub>2</sub>	blue	L	a	b	H	V	C	300 - 780 nm	780 - 2500 nm	300 - 2500 nm
TITANIX JR-1000	72	28	22.9	0.5	-45.6	2.4PB	2.7	9.8	6.3	58.0	32.2
Pigmentary TiO <sub>2</sub>	62	38	22.5	2.3	-50.8	3.1PB	2.6	10.6	5.9	47.6	27.1

### ● Reflectance curves



### ● Heat blocking test



### ● Deep blue paint formulation & coating conditions

1) Paint formulation (Pigment concentration, 100 PHR)

Dispersion	Content (g)
Titanium dioxide & blue 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 Copper phthalocyanine blue pigment  
(Dainichiseika color & chemicals Mfg.)

\*2 from DIC

2) Coating conditions

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