



Heat Shield Black Pigment TIPAQUE BLACK SG-101

TIPAQUE BLACK SG-101 is Calcium Titanium Manganese Oxide black pigment $(Ca, Ti, Mn)O_3$, and is eco-friendly due to its Cr-free

TIPAQUE BLACK SG-101 shows neutral black color which is not realized by any other inorganic materials.

TIPAQUE BLACK SG-101 shows superior reflectance property in near-infrared region (780~2500nm), and show superior heat shield effect in applications of paint, plastics, fiber and so on.

< General properties >

Items	Value
Specific gravity (g/cm ³)	4.1
Average Particle size (μm)	0.95
Specific surface area (m ² /g)	2.7
Oil absorption (cc/100g)	13

< Paint film properties >

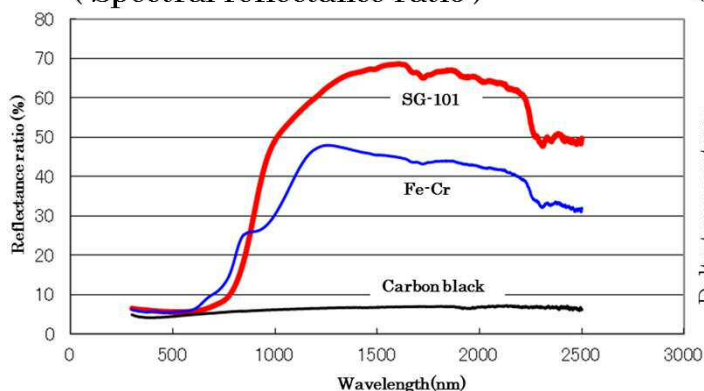
Alkyd-melamine paint (Film thickness :68μm)

(Color and Solar reflectance ratio)

Sample	Color			Solar reflectance ratio (%) ¹⁾		
	L	a	b	300~ 2500nm	300~ 780nm	780~ 2500nm
SG-101	10.7	1.1	1.2	24	6	46
Fe-Cr pigment	15.7	3.1	2.5	19	7	35
Carbon Black	7.1	-0.4	0.6	5	5	6

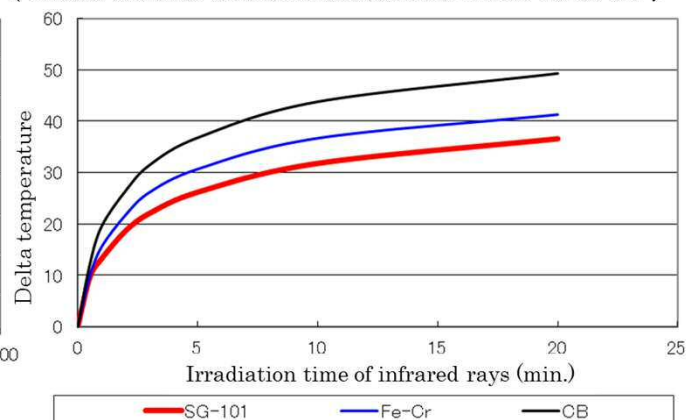
1) JIS K 5602

(Spectral reflectance ratio)



*Alkyd melamine paint, P/B=1/1, film thickness=55μm

(Heat shield effect based on ASTM D 4803-97)



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