

KIWALITE

REFLECTIVE SHEETING

**TECHNICAL
BULLETIN**

No.KTD-13901

Safety Grade #9000 Series

— Actual Technical Date —

KIWA CHEMICAL INDUSTRY CO., LTD.

FILMS DIVISION

1) Reflective Intensity (Standard Illuminant A(2850° K) ; Value in cd/lux/m²)

a) Initial values

D.A.	I.A.	White	Yellow	Red	Green	Blue
0.2°	-4°	38.7	32.9	10.0	4.38	1.92
	30°	30.8	25.6	7.8	3.23	1.36
	40°	24.0	19.9	6.0	2.38	0.97
0.33°	-4°	31.9	28.9	8.5	3.35	1.44
	30°	28.9	23.0	6.8	2.62	1.08
	40°	21.8	18.2	5.5	1.98	0.81

b) Values after weathering test (300hrs : Sunshine accelerated Weather-O-Meter)

D.A.	I.A.	White	Yellow	Red	Green	Blue
0.2°	-4°	31.9	28.9	7.9	3.55	1.52
	30°	23.2	20.7	6.3	2.62	1.09
	40°	19.3	15.4	4.7	1.84	0.76
0.33°	-4°	25.0	23.3	7.1	2.70	1.16
	30°	21.3	18.7	5.7	2.21	0.83
	40°	17.2	14.7	4.3	1.66	0.66

2) Color (CIE Standard Illuminant D65 ; Instrument configuration 45/0)

a) Initial values

	White	Yellow	Red	Green	Blue
x	0.308	0.510	0.649	0.122	0.144
y	0.319	0.481	0.335	0.420	0.116
Y	46.3	30.3	9.2	6.5	2.5

b) Values after weathering test (300hrs : Sunshine accelerated Weather-O
-Meter)

	White	Yellow	Red	Green	Blue
x	0.311	0.500	0.641	0.131	0.150
y	0.322	0.488	0.337	0.406	0.123
Y	45.4	27.6	9.6	6.9	2.8

3) Other Requirements

Adhesion, shrinkage, flexibility, removability of liner, and secular gloss are complied with ASTM D 4956-01 of U.S. Specification.



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