



TEST REPORT

Daylight Reflectance

Ref: Test Result/TR-Color-152
Established: 04-Jun-2014
Updated: 18-Aug-2016

Background:

% Daylight Reflectance = % Diffuse Reflectance + % Specular Reflectance

Daylight Reflectance: Specular reflectance included (SCI) is the measurement of the total or daylight reflectance from a surface that including the diffuse and specular reflectance

Diffuse Reflectance: Specular reflectance excluded (SCE) is the measurement of reflectance made with specular reflectance excluded from the measurement.

Definition:

Specular Reflection is the mirror-liked reflection of a beam of light from a surface, in which the beam from a single incoming direction is reflected into a single outgoing direction

Diffused Reflection refer to the single light beam falls onto a rough surface, the ray of light will be reflected in different directions.

Objective:

To measure the daylight reflectance value of color.

Method:

The method of measurement is with reference to ASTM E903-12: Standard Test Method for Solar Absorptance, Reflectance and Transmittance of Materials.

Instrument used is the X-rite Color Eye CE 7000A spectrophotometer with the following parameters:

1. Measurement Geometry Angle: 8 degree
2. Integrating sphere size: 6" (15.2 cm) integrating sphere
3. Wavelength: 360-750nm
4. Illuminant: D65

**Disclaimer: Daylight reflectance is measured using Color Card.*

NIPPON PAINT (SINGAPORE) CO PTE LTD

1, First Lok Yang Road, Jurong, Singapore 629728. Tel: 6265 5355 Fax: 6264 1603
Co Reg No. 196200138N

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S/N	Code	% Daylight Reflectance	% Diffuse Reflectance	% Specular Reflectance
1	CS 1962E	64.09	55.11	8.98
2	CS 2922E	45.61	37.64	7.97
3	CS 3254E	29.61	24.25	5.36
4	CS 2918E	35.57	29.22	6.35
5	CS 2980E	24.84	20.32	4.52
6	CS 3771E	29.92	25.10	4.82
7	CS 10560E	70.06	68.03	2.03
8	CS 1927E	62.03	51.63	10.40
9	CS 1619E	55.45	45.69	9.76
10	CS 20893E	38.84	31.83	7.01
11	CS 6584E	6.54	4.66	1.88
12	CS 3317E	18.54	14.93	3.61
13	CS 1631E	60.94	50.46	10.48
14	CS 6206E	39.35	32.30	7.05
15	CS 2589E	35.17	29.25	5.92
16	CS 7142E	60.23	50.02	10.21
17	CS 7148E	44.43	36.88	7.55
18	CS 5171E	45.92	41.22	4.70
19	CS 7133E	33.16	27.69	5.47
20	CS 6247E	16.49	13.41	3.08
21	CS 5175E	12.56	10.00	2.56
22	CS 8322E	37.52	33.10	4.42
23	CS 8547E	20.11	15.43	4.68
24	CS 8885E	20.30	16.61	3.69
25	CS 8868E	8.90	6.79	2.11
26	CS 9434E	55.40	46.00	9.40
27	CS 9435E	27.10	22.29	4.81
28	CS 9459E	25.77	21.91	3.86
29	CS 9646E	11.01	9.17	1.84
30	CS 7125E	44.29	36.44	7.85
31	CS 6188E	39.47	36.01	3.46
32	CS 9240E	18.09	16.17	1.92

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S/N	Code	% Daylight Reflectance	% Diffuse Reflectance	% Specular Reflectance
33	CS 9235E	14.80	12.37	2.43
34	CS 8189E	18.14	14.65	3.49
35	CS 8160E	9.57	7.38	2.19
36	CS 5170E	12.84	10.72	2.12
37	CS 8177E	18.70	15.58	3.12
38	CS 8362E	9.18	6.88	2.30
39	CS 20769M	55.55	48.05	7.50
40	CS 3892M	41.14	36.02	5.12
41	CS 20810M	49.78	43.21	6.57
42	CS 20480M	63.49	47.46	16.03
43	CS 2964M	62.21	55.49	6.72
44	CS 20927M	59.72	47.01	12.71
45	CS 2968M	62.29	49.13	13.16
46	CS 9254M	29.58	23.04	6.54
47	CS 3904M	29.87	24.63	5.24
48	CS 6571M	21.04	17.09	3.95
49	CS 9253M	43.95	35.90	8.05
50	CS 2595M	46.08	37.60	8.48
51	CS 7085M	38.80	31.11	7.69
52	CS 5184M	33.14	26.47	6.67
53	CS 5185M	32.15	25.71	6.44
54	CS 5186M	30.44	24.73	5.71
55	CS 6200M	13.80	11.09	2.71
56	CS 9262M	13.46	10.86	2.60
57	CS 8366M	35.09	29.02	6.07
58	CS 8197M	29.52	25.31	4.21
59	CS 6183M	30.54	24.62	5.92
60	CS 7471M	40.68	32.10	8.58

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