



TEST REPORT

Daylight Reflectance

Ref: Test Result/TR-Color-150
Established: 14-May-2014
Updated: 20-Jul-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.*

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S/N	Code	Name	% Daylight Reflectance	% Diffuse Reflectance	% Specular Reflectance
1	0803	Spanish Red	19.98	19.67	0.31
2	0805	Mahogany	11.65	11.39	0.26
3	0806	Tangerine	45.91	45.66	0.25
4	0807	Sunset	48.44	48.14	0.30
5	0809	Willow Tint	67.15	66.61	0.55
6	0811	Lime Green	58.42	57.72	0.70
7	0812	Aquarine	51.40	50.92	0.48
8	0813	Clear Blue	62.23	61.76	0.47
9	0814	Bright Jade	23.36	23.10	0.26
10	0818	Amber	25.71	25.55	0.16
11	0820	Meadow Sweet	54.02	53.20	0.83
12	0821	Tropical Peach	57.97	57.50	0.47
13	0822	Coffee Flavour	45.03	44.54	0.49
14	0823	Rustic Beige	59.13	58.54	0.59
15	0824	Light Tangerine	46.67	46.47	0.20
16	0826	Fresh Violet	54.98	54.56	0.41
17	0827	Vanilla	68.11	67.12	1.00
18	0828	Happy Day	57.04	56.56	0.48
19	0830	Bronze Copper	23.98	23.76	0.23
20	0831	Earth	47.74	47.37	0.37
21	0832	Ocean Blue	25.05	24.76	0.29
22	0833	Cosmic Navy	8.12	8.04	0.08
23	0834	Bean Town	31.00	30.84	0.16
24	0835	Suburban	19.61	18.81	0.79
25	0836	Maryland	61.21	60.78	0.43
26	0837	Peach Frosting	72.08	71.44	0.65
27	0838	September Cream	73.19	72.69	0.50
28	0839	Golden Blond	63.65	63.01	0.64
29	0840	Lemon Custard	69.27	68.68	0.59
30	0841	Wharf Green	17.88	17.63	0.25
31	0842	Fading Rose	40.34	40.00	0.34
32	0843	Argent	22.00	21.75	0.24
33	0844	Slate Grey	17.93	17.78	0.15
34	0845	Silhouette Gray	12.25	12.12	0.13
35	BS 00A01	Cloud	54.94	54.47	0.47
36	BS 00A05	Platinum	38.53	38.14	0.39
37	BS 00E53	Black	4.71	4.62	0.08

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S/N	Code	Name	% Daylight Reflectance	% Diffuse Reflectance	% Specular Reflectance
38	BS 00E55	White	81.83	80.96	0.87
39	BS 04C33	Rogue Pink	53.09	52.59	0.50
40	BS 04E49	Rose	68.12	67.34	0.77
41	BS 06C33	Biscuit	49.58	48.96	0.62
42	BS 08B17	Coffee Milk	50.21	49.74	0.47
43	BS 08C31	Cameo White	63.59	63.02	0.56
44	BS 10B15	Linen White	68.04	67.54	0.50
45	BS 14C35	Rayon	34.04	33.63	0.41
46	BS 18B17	Bluish Grey	50.27	49.97	0.31
47	BS 18C31	Moon Mist	67.42	66.68	0.73
48	BS 18E50	China Blue	48.93	48.45	0.48
49	BS 20C33	Bluebell	53.12	52.51	0.61
50	BS 20C37	Wedge Wood	22.61	22.36	0.26

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