



TEST REPORT

Daylight Reflectance

Ref: Test Result/TR_Color-014
Established: 12-Aug-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.*



TEST REPORT

S/N	Color	Name	% Daylight reflectance	% Diffuse reflectance	% Specular reflectance
1	5001	ROSE WHITE	75.05	75.03	0.02
2	5003	ORCHID WHITE	76.49	75.98	0.51
3	5005	LILY WHITE	76.22	75.76	0.45
4	5006	BARLEY WHITE	75.38	75.05	0.34
5	5007	BLUEBELL WHITE	68.99	68.64	0.35
6	5008	APPLE WHITE	75.15	75.02	0.13
7	5009	WHISPER WHITE	65.62	65.38	0.25
8	5010	COUNTRY BLOSSOM	67.41	67.28	0.13
9	5015	LIGHT CREAM	66.08	65.62	0.46
10	5018	BLUE DANUBE	58.41	58.20	0.22
11	5028	WILLOW GREEN	34.88	34.60	0.28
12	5029	BEIGE	52.24	51.75	0.49
13	5033	TURF GREEN	9.37	9.30	0.07
14	5034	CHESTNUT	16.00	15.95	0.04
15	5035	SOLITUDE	60.75	60.57	0.17
16	5037	ASH GREY	57.88	57.54	0.34
17	5039	OFF WHITE	70.08	69.66	0.42
18	5044	RASPBERRY	59.75	59.62	0.13
19	5045	PURPLE ANGEL	38.47	38.22	0.25
20	5046	SPECTRUM RED	26.60	26.24	0.36
21	5047	BLACK	4.26	4.16	0.10
22	5048	WHITE	79.29	78.83	0.47
23	5049	MAYAN YELLOW	55.72	55.34	0.39
24	5050	TANGERINE	46.08	45.91	0.16
25	5051	CONTINENTAL BLUE	27.74	27.48	0.25
26	5053	ORANGE PASTE	59.16	58.26	0.91
27	5055	COSY ORANGE	44.61	43.98	0.63
28	5056	LIGHT COCOA	33.05	32.46	0.59
29	5061	VELVET DREAM	21.54	20.80	0.74
30	5062	CREAMY WHITE	77.98	77.24	0.74
31	5063	GOLDEN BUFF	61.10	60.42	0.69
32	5064	LILAC WHITE	75.19	74.36	0.83
33	5065	AIRY WHITE	71.00	70.21	0.79
34	5066	SHERBET	72.10	71.51	0.59
35	5067	CUCUMBER	69.88	68.92	0.95
36	5068	COOL LIME	54.70	54.17	0.53



TEST REPORT

S/N	Color	Name	% Daylight reflectance	% Diffuse reflectance	% Specular reflectance
37	5069	GALAXY	16.44	16.28	0.16
38	5070	AVOCADO	47.77	47.27	0.51
39	5071	KIWIPPI	23.43	23.22	0.20
40	5072	MULBERRY	66.83	65.99	0.84
41	5073	WHITE ICE	70.26	69.46	0.80
42	5074	FAIRLADY	73.15	72.39	0.76
43	5075	SWANSDOWN	68.26	67.36	0.91
44	5077	LIME TINT	73.15	72.40	0.75
45	5078	MISTY	64.60	63.78	0.81
46	5079	SANDSTONE	36.49	36.07	0.42
47	5082	BARELY PINK	74.78	74.24	0.54
48	5083	ROSEPETAL	75.48	75.28	0.20
49	5084	CANDLE LIGHT	71.06	70.92	0.14
50	5085	CORNFIELD	65.26	64.37	0.89
51	5086	AQUA MARINE	37.94	37.32	0.62
52	5087	SMOKE PEARL	13.54	13.40	0.14
53	5088	BLUE BEAUTY	38.71	38.10	0.60
54	5089	EVENING HAZE	58.05	57.15	0.90
55	5090	THISTLE	52.57	51.86	0.71
56	5091	SEQUOIA DUSK	48.42	47.65	0.77
57	5092	COSMETIC PINK	70.45	69.92	0.52