



TEST REPORT

Daylight Reflectance

Ref: Test Result/TR-Color-149
Established: 21-Apr-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	BS 00A01	Cloud	53.83	53.24	0.59
2	BS 00A05	Platinum Grey	36.14	35.71	0.43
3	BS 00E53	Black	4.58	4.26	0.32
4	BS 00E55	White	81.91	80.80	1.10
5	BS 02C37	Romatique (B)	26.73	26.11	0.62
6	BS 02C39	Plum (A)	13.08	12.62	0.46
7	BS 04B15	Subtle	66.09	65.34	0.75
8	BS 04B17	Dusty Pink	51.18	50.59	0.59
9	BS 04B21	Brandy	28.40	27.98	0.42
10	BS 04C33	Rogue Pink	52.11	51.54	0.57
11	BS 04C37	Copper Clay	24.41	23.97	0.44
12	BS 04D44	Oriental (A)	21.90	21.41	0.49
13	BS 04D45	Cottage Red (A)	15.20	14.85	0.36
14	BS 04E49	Rose	64.34	63.46	0.88
15	BS 04E51	Coral (A)	43.13	42.49	0.64
16	BS 04E53	Flaming Red (A)	29.54	28.93	0.61
17	BS 06C33	Biscuit	50.84	50.17	0.67
18	BS 06C39	Teak (A)	11.77	11.38	0.39
19	BS 06D41	Malibu Sunrise (B)	52.84	52.19	0.65
20	BS 06D43	Calypso (B)	30.48	30.11	0.37
21	BS 06E50	Sunset Orange (B)	52.99	52.28	0.71
22	BS 06E51	Mandarin Orange (A)	42.92	42.36	0.56
23	BS 08B15	Off White	71.04	70.27	0.76
24	BS 08B17	Coffee Milk	51.06	50.43	0.63
25	BS 08B21	Stone Ridge	27.36	26.97	0.39
26	BS 08B25	Praline	13.62	13.32	0.30
27	BS 08C31	Cameo White	62.65	61.99	0.66
28	BS 08C35	Frosties	37.09	36.45	0.64
29	BS 08C37	Bronze Leaf (B)	19.32	18.90	0.42
30	BS 08E51	Golden Yellow (A)	49.99	49.53	0.46
31	BS 10A03	Sequoia Dusk	47.79	47.27	0.52
32	BS 10A07	Slate Grey	25.62	25.27	0.35
33	BS 10A11	Charcoal Grey	13.07	12.76	0.31
34	BS 10B15	Linen White	68.15	67.79	0.36
35	BS 10B17	Vinyl	48.32	47.48	0.85
36	BS 10C31	Vanilla	62.10	61.59	0.51
37	BS 10C33	Honey	52.79	52.61	0.18
38	BS 10C35	Straw Flower (B)	31.91	31.34	0.57

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39	BS 10E49	Lemon Lily	58.82	58.19	0.62
40	BS 10E50	Lemonade (B)	52.04	51.87	0.17
41	BS 12B15	Spray Mist	63.76	63.01	0.75
42	BS 12B17	Sprout	46.06	45.52	0.54
43	BS 12B21	Fern Green	27.46	26.91	0.55
44	BS 12C33	Celery (B)	42.94	42.39	0.55
45	BS 12D45	Creepers	12.38	12.00	0.39
46	BS 14C31	Skylight	62.94	62.65	0.29
47	BS 14C35	Rayon	36.30	35.57	0.73
48	BS 14D41	Celedon	32.14	31.61	0.53
49	BS 14E49	Pine Tree	61.39	60.70	0.69
50	BS 14E51	Golf Green (B)	21.48	21.06	0.41
51	BS 14E53	Jade Lime (B)	14.14	13.74	0.40
52	BS 16C33	Oasis	48.78	48.41	0.37
53	BS 16C37	Greenwich	16.75	16.39	0.36
54	BS 16D41	Arabesque	34.77	34.19	0.58
55	BS 16D45	Forest Green	7.72	7.37	0.35
56	BS 16E53	Turquoise	17.26	16.85	0.41
57	BS 18B17	Wave Grey	51.30	50.73	0.56
58	BS 18B21	Silver Streak	28.25	27.84	0.41
59	BS 18C31	Moon Mist	70.13	69.43	0.70
60	BS 18C35	Smokey Blue	35.55	35.32	0.23
61	BS 18D41	Horizon Blue	39.07	38.58	0.49
62	BS 18D43	Blue Tropics	19.70	19.39	0.31
63	BS 18E49	Serene	62.93	62.17	0.76
64	BS 18E50	China Blue	50.82	50.18	0.64
65	BS 18E51	Regatta	27.53	27.08	0.44
66	BS 18E53	Bright Blue	14.73	14.34	0.39
67	BS 20C33	Bluebell	53.20	52.59	0.61
68	BS 20C37	Wedgewood	22.95	22.49	0.46
69	BS 20E51	Sterling Blue	31.83	31.47	0.36
70	BS 22B15	Gray Tint	68.56	67.86	0.70
71	BS 22B17	Sweet Lavender	51.12	50.55	0.57
72	BS 22C37	Velvet Moon	22.49	22.23	0.25
73	BS 24C33	Cotton Pink	50.56	50.45	0.11
74	BS 24C39	Regalia (A)	13.76	13.56	0.20

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