



## TEST REPORT

### Daylight Reflectance

Ref: Test Result/TR\_Color-017  
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	1101	SKY BEIGE	74.76	74.15	0.60
2	1103	POWDER PINK	73.26	72.73	0.53
3	1104	SWEET PINK	64.54	64.12	0.42
4	1105	SASSY	46.38	46.35	0.03
5	1106	MOON	69.29	68.76	0.53
6	1107	SANDCASTLE	65.29	64.81	0.48
7	1108	SUN GLOW	58.89	58.61	0.28
8	1109	HONEY SKY	62.46	62.10	0.36
9	1110	WARM YELLOW	60.10	59.62	0.48
10	1111	MANDARIN GLOW	51.67	51.57	0.10
11	1112	SMOKY	65.45	65.13	0.32
12	1113	URBAN GREY	53.32	53.19	0.13
13	1114	LATTE	54.48	54.27	0.20
14	1115	OYSTER GREY	50.91	50.59	0.31
15	1116	MALDIVES SAND	35.43	35.22	0.22
16	1117	RUSTIC BROWN	24.65	24.52	0.13
17	1118	CHILL	73.86	73.22	0.64
18	1119	MOUNTAIN FRESH	65.31	64.77	0.53
19	1120	LUSH	67.65	66.78	0.87
20	1121	PEPPERMINT	62.74	62.09	0.66
21	1122	SPROUT	43.00	42.63	0.37
22	1123	FRESH CELERY	47.81	47.38	0.43
23	1124	CLEAR WATER	69.58	68.88	0.70
24	1125	POWDER BLUE	68.46	67.79	0.67
25	1126	SEABREEZE	53.61	53.11	0.51
26	1129	INDIGO MIST	71.91	71.29	0.62
27	1130	DUSK	71.42	70.89	0.52
28	1131	LAVENDER CHARM	58.60	57.97	0.63
29	1134	DEEP VIOLET	40.76	40.41	0.34
30	1135	CHALK WHITE	76.34	75.65	0.69
31	1136	COTTON WHITE	78.16	77.64	0.52
32	1137	LILY WHITE	77.09	76.60	0.50
33	1138	LILAC WHITE	77.57	77.17	0.40
34	1139	ORCHID WHITE	79.93	79.29	0.64
35	1140	APPLE WHITE	76.56	75.94	0.62
36	1141	BARLEY WHITE	73.16	72.42	0.74



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S/N	Color	Name	% Daylight reflectance	% Diffuse reflectance	% Specular reflectance
37	1142	WHITE	79.55	79.01	0.54
38	1143	ROSE WHITE	75.92	75.21	0.72
39	1147	PEACH SILK	73.04	72.34	0.70
40	1148	BUTTERCAKE	65.35	64.69	0.67
41	1149	DREAMLAND	77.74	77.06	0.68
42	1150	VANILLA CRÈME	75.71	74.79	0.92
43	1151	TROPICAL SUNSHINE	70.40	69.65	0.75
44	1152	PEARL	79.17	78.39	0.78
45	1153	WHITE DAWN	78.35	77.55	0.80
46	1154	PORCELAIN	74.35	73.62	0.73
47	1156	COOL MINT	75.30	74.52	0.78
48	1157	CITRUS	64.60	63.95	0.64
49	1159	OCEAN SKY	72.36	71.60	0.76
50	1160	RAIN DROP	70.79	70.05	0.75
51	1162	ANGEL PINK	79.93	79.04	0.90
52	1163	BABY BREATH	71.84	71.02	0.82
53	1164	SNOW FLAKES	79.41	78.71	0.70
54	1168	FIRE ENGINE RED	26.21	26.47	-0.26
55	1169	MELODY	45.44	44.97	0.48
56	1170	VIVID ORANGE	34.83	34.66	0.17
57	1171	RANCH MINK	16.23	16.01	0.22
58	1172	YOUR SHADOW	53.85	53.25	0.60
59	1173	MOLE	29.22	28.92	0.30
60	1174	PURPLE ROMANCE	29.66	29.43	0.22
61	1175	HARMONIOUS PURPLE	22.01	21.84	0.16
62	1177	STYLISH GREY	34.46	34.07	0.39
63	1178	ULTRA GREY	12.52	12.38	0.14
64	1179	COCOA BAR	15.69	15.58	0.11
65	1180	TREASURE CHEST	19.15	19.05	0.10
66	1181	BALLERINA	65.68	64.97	0.71
67	1182	MAUVE PINK	32.69	32.36	0.33
68	1183	SENSUOUS	17.60	17.46	0.14
69	1184	DEEP SCARLET	24.46	24.14	0.32
70	1186	GRAY MOOD	17.12	16.85	0.27
71	1187	GLENDIVE	21.66	21.31	0.35
72	1189	PUTTY	51.62	51.04	0.59



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73	1190	SUNLIGHT	53.56	52.93	0.64
74	1192	KHAKI	37.65	37.24	0.41
75	1193	ORCHID PURPLE	37.03	36.69	0.34
76	1194	PINK FROST	67.94	67.18	0.76
77	1195	PINK LOVE	57.91	57.37	0.54
78	1196	DAWN SUN	44.98	44.72	0.26
79	1197	JEWEL BLUE	39.52	39.08	0.44
80	1198	DAUPHIN GRAY	36.09	35.72	0.38
81	1199	SAIL WHITE	75.64	75.07	0.57