



TEST REPORT

Daylight Reflectance

Ref: Test Result/TR_Color-133
Established: 1-Jun-2016
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	027	AQUARINE	52.23	51.92	0.31
2	028	MIST BLUE	52.30	52.12	0.18
3	029	MISTY GREEN	67.18	66.86	0.32
4	032	LIGHT BEIGE	73.38	73.35	0.03
5	034	PEACH	68.34	67.97	0.37
6	035	MILKY CREAM	71.19	70.82	0.37
7	036	ROSY PINK	73.36	72.99	0.37
8	037	SILKY BLUE	61.53	61.32	0.21
9	039	SOFT VIOLET	67.90	67.67	0.23
10	040	QUEEN ANNE'S LACE	69.80	69.57	0.24
11	041	ROSE WHITE	74.89	74.43	0.46
12	042	LILY WHITE	76.94	76.35	0.59
13	043	APPLE WHITE	76.39	76.12	0.27
14	044	BLUE SEA	59.64	59.40	0.24
15	045	SWEET	76.18	75.87	0.31
16	608	CARNATION	64.8	64.70	0.09
17	4046	PEARL WHITE	65.33	65.10	0.24
18	4052	IVORY	61.77	61.43	0.34
19	9093	ASH GREY	54.4	54.11	0.29
20	BS 00A01	CLOUD	57.52	57.24	0.28
21	BS 08B15	OFF WHITE	65.93	65.65	0.28
22	BS 18C31	MOON MIST	69.07	68.86	0.21
23	BS 18C39	SERENE	67.76	67.50	0.26
24	BS 9102	WHITE	79.18	79.06	0.12