



TEST REPORT

Daylight Reflectance

Ref: Test Result/TR_Color-052
Established: 23-Jun-2015
Updated: 26-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	%Daylight Reflectance	% Diffuse Reflectance	% Specular Reflectance
1	RS-201/204	47.00	37.17	9.83
2	RS-208/202	33.68	31.43	2.25
3	RS-201/202	38.26	34.78	3.48
4	RS-209/202	32.23	31.30	0.93
5	RS-205/201	29.19	28.29	0.89
6	RS-210/203	23.42	21.40	2.03
7	RS-206/207	10.94	10.68	0.26
8	RS-211/203	16.84	15.92	0.92
9	RS-331	38.82	37.48	1.34
10	RS-301	29.46	29.38	0.07
11	RS-332	31.54	26.96	4.58
12	RS-322	26.30	26.16	0.14
13	RS-335	32.34	25.59	6.75
14	RS-337	17.80	16.53	1.27
15	RS-333	39.50	38.41	1.09
16	RS-336	21.66	19.40	2.26
17	RS-323	13.41	12.75	0.67
18	RS-325	22.90	22.67	0.23
19	RS-334	19.39	18.16	1.23
20	RS-338	14.94	14.44	0.50