



TEST REPORT

Daylight Reflectance

Ref: Test Result/TR-Color-151
Established: 14-May-14
Updated: 20-Jul-16

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.*

NIPPON PAINT (SINGAPORE) CO PTE LTD

1, First Lok Yang Road, Jurong, Singapore 629728. Tel: 6265 5355 Fax: 6264 1603
Co Reg No. 196200138N

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S/N	Code	Name	%Daylight Reflectance	% Diffuse Reflectance	% Specular Reflectance
1	0701	White	82.52	81.48	1.04
2	0702	Peach Splendour	65.85	65.36	0.48
3	0703	Beige Delight	63.70	63.46	0.24
4	0704	Chic Crème	53.52	53.31	0.21
5	0705	Nature	43.75	43.56	0.19
6	0706	Amazon	18.71	18.56	0.16
7	0707	Vanilla Arctic	68.17	67.98	0.19
8	0708	Buttercream	71.30	71.18	0.12
9	0709	Sunburst	54.31	54.19	0.12
10	0710	Haier Citrus	48.94	48.89	0.05
11	0711	Classy Pink	52.11	52.03	0.08
12	0712	Sandal	51.70	51.62	0.09
13	0713	Ritz Coppa	23.66	23.58	0.07
14	0714	Aquarium	54.91	54.74	0.17
15	0715	Alaskan Cruise	30.55	30.47	0.08
16	0716	Falcon Frost	66.95	66.66	0.29
17	0717	Urban Rocks	54.05	53.83	0.22
18	0718	Titania	38.01	37.86	0.15
19	0719	Airion Blu	54.81	54.63	0.18
20	0720	Enchanteur	37.06	37.01	0.05
21	0721	Lime Gem	63.90	63.74	0.17
22	0722	Vinyl Burst	50.02	49.87	0.16
23	0723	Oxblood	9.98	9.89	0.09
24	0724	Deep Clove	8.38	8.30	0.08
25	0725	Argent	23.02	22.89	0.13
26	0726	Jurassic	55.49	55.34	0.14
27	0727	Pale Eucalyptus	22.36	22.29	0.07
28	0728	Cottage Meadows	9.57	9.48	0.09
29	0729	Merman	30.84	30.69	0.15
30	0730	Orange Scent	70.55	70.40	0.15
31	0731	Slate Gray	19.14	19.01	0.14

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