



## TEST REPORT

### Daylight Reflectance

Ref: Test Result/TR-Color-275  
Established: 06-Dec-17  
Updated: --

#### 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	Color	% Daylight reflectance	% Diffuse reflectance	% Specular reflectance
1	TBC 04 Teak	9.71	9.65	0.06
2	TBC 07 White	81.91	80.80	1.10
3	TBC 08 Black	4.71	4.62	0.08

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