

Herning, 29 August 2018

ege testcertificate

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|-------------------------------|--|
| Subject: | Light Reflectance |
| Reference No.: | 1060 |
| Reference: | Una Mineral |
| Description of sample: | Standard colors |
| Testing atmosphere | Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles EN ISO 139:2005 of 65 ± 4 % R.H. and 20 ± 2 °C. |

Background

LRV is an instrumental measurement made using a spectrophotometer.

It is equivalent to CIE Y and is the proportion of visible light reflected by a surface, weighted for the sensitivity to light of the human eye.

LRV is expressed on a scale of 0-100 where absolute white has a value of 100 and absolute black has a value of 0. In practice white may be about 85 and black about 6.

For people with adequate vision, difference in hue or chroma (colour intensity), provide sufficient visual contrast. But for people who are visually impaired the main feature of a surface which determines the ability to identify differences in colour is the amount of light the surface reflects, or it's LRV.

Test procedure

The light reflectance value for the sample was determined using a Chroma Meter reflectance spectrophotometer with a large area CR-410 measuring head.

The sample was subjected to measurements and viewed at 0° with illuminant C. The light reflectance was determined using CIE Y, according to BS 8493:2008.

ege[®]
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egetæpper a/s
Industrivej Nord 25
Postbox 190
DK-7400 Herning

Tel: +45 97 11 88 11
Fax: +45 97 11 95 80

ege@ege.dk
www.egecarpets.com

CVR 38 45 42 18

Test results CIE Y :

Ecotrust

| Color ref | Result |
|-----------|--------|
| 084718048 | 7,84 |
| 084772048 | 12,10 |
| 084774048 | 9,46 |
| 084776048 | 9,20 |
| 084778048 | 5,54 |
| 084782048 | 3,37 |

Broadloom

| Color ref | Result |
|-----------|--------|
| 0848180 | 7,84 |
| 0848720 | 12,10 |
| 0848740 | 9,46 |
| 0848760 | 9,20 |
| 0848780 | 5,54 |
| 0848820 | 3,37 |

The information contained on page no 1-2 of this certificate is hereby certified to be correct statement of the tests and investigations carried out by ege testlaboratory on the material referred to.

Signed by



Sergiy Veretennikov
Laboratory Technician

Reported By



Henrik Schmidt Hansen
Director/CSO – Chief Sustainability
Officer