Test report

Light Reflectance Value

What is Light Reflectance Value (LRV)?
Light Reflectance Value (LRV) is the total quantity of visible light reflected by a surface, e.g. floorings, ceilings, walls and furniture, at all wavelengths and directions when illuminated by a light source.

The LRV scale runs from 0, which is a perfectly absorbing surface that could be assumed to be totally black, up to 100, which is a perfectly reflective surface that could be considered to be the perfect white. Because of practical influences in any application, black is always greater than 0 and white never equals 100. Additional to colour, the structure and gloss of the product or surface are determining factors for LRV.

The LRV value is directly measured according to British Standard 8493:2008 'Light Reflectance Value (LRV) of a surface'.

The L*-value (colour depth) is sometimes being used to calculate visual contrast, but should not be mixed up with the LRV as it is significantly higher. However, the L*-value can be used to calculate the LRV of a surface (also referred to as the 'ρ-value' (rho)), as a close approximation of the directly measured LRV according to BS 8493.

Formula: rho (ρ) = $100 \times ((L+16)/116)^3$

Product name: **Libra Lines**

Results:

Colour	L*	LRV
9001	31.40	6.82
8841	31.12	6.70
8801	28.69	5.72
2094	36.62	9.33
9072	36.89	9.48
9021	27.85	5.40
7912	33.95	7.98
2082	34.79	8.39
2062	49.06	17.64
3922	34.65	8.33
9501	30.13	6.29
2942	34.66	8.33

Colour	L*	LRV
7952	41.73	12.33
2045	49.35	17.88
9104	37.27	9.69
8431	36.78	9.42
8812	45.00	14.54
2035	50.99	19.26
2117	36.07	9.04
7812	47.31	16.26
9022	30.93	6.62
9975	33.43	7.74
2924	48.23	16.97
9950	47.03	16.04

Measurements tool/equipment/conditions

- standard illuminant CIE D65
- 10° standard colorimetric observer
- 100% UV
- specular component included
- aperture: large

For more information on LRV in general and test results per product, visit www.desso.com