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 x $((L+16)/116)^3$

Product name: **DESSO Lita**
Results:

Colour	L*	LRV
1708	38.82	10.55
1908	56.34	24.25
2042	38.87	10.58
2081	24.10	4.13
2111	20.11	3.02
2116	35.87	8.94
2951	21.36	3.34

Colour	L*	LRV
3821	24.54	4.27
4201	25.99	4.74
6108	58.69	26.70
7111	41.60	12.24
7118	37.73	9.94
7281	25.51	4.58
7901	23.13	3.84

Colour	L*	LRV
8222	34.93	8.46
8402	33.97	8.00
8424	41.01	11.87
8501	24.95	4.40
8801	20.92	3.22
9012	22.22	3.58
9505	47.65	16.52

Colour	L*	LRV
9524	44.12	13.92
9990	17.84	2.48

Measurements tool/equipment/conditions: tandard illuminant CIE D65
- 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 professionals.tarkett.com

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