

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

Product name: **DESSO Iconic**

Results:

Colour	L*	LRV	Colour	L*	LRV	Colour	L*	LRV
2101	19.27	2.81	8107	40.88	11.79	9523	34.56	8.28
2906	63.19	31.81	8802	24.46	4.24	9524	39.04	10.68
2913	39.46	10.93	8911	26.01	4.75	9525	52.71	20.78
4208	28.36	5.59	9093	27.86	5.40	9527	67.16	36.84
4212	38.55	10.40	9096	55.36	23.28	9945	43.02	13.17
5103	43.98	13.82	9097	60.60	28.79	9975	35.18	8.59
6401	56.08	23.99	9512	27.99	5.45	9980	24.04	4.11
7164	43.68	13.62	9517	60.51	28.70	9990	26.04	4.76

Measurements tool/equipment/conditions: standard 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