

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 'p-value' (rho)), as a close approximation of the directly measured LRV according to BS 8493.

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

Product name: **DESSO AirMaster® Earth EcoBase (Restyle 2024)**

Results:

Colour	L*	LRV	Colour	L*	LRV
1960	51.18	19.42	8911	18.56	2.64
2023	49.35	17.88	8924	52.53	20.62
2067	36.78	9.42	9056	45.62	14.99
2083	48.71	17.36	9094	45.94	15.22
2091	29.68	6.11	9112	36.12	9.07
6001	46.46	15.61	9512	28.73	5.73
7921	26.38	4.88	9515	56.19	24.10
7922	39.54	10.98	9535	44.86	14.44
8802	33.72	7.87	9990	20.67	3.16

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.tarkett.com