

# 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 Essence EcoBase™**

Results:

Colour	L*	LRV	Colour	L*	LRV	Colour	L*	LRV	Colour	L*	LRV
2915	55.20	23.12	7075	42.06	12.54	9095	50.07	18.48	9991	16.77	2.25
2923	50.35	18.71	7123	42.77	13.01	9096	38.97	10.64			
2925	47.35	16.29	8012	38.56	10.40	9502	25.41	4.55			
3820	31.83	7.01	8413	34.90	8.45	9504	39.22	10.78			
3842	19.12	2.78	8803	29.90	6.19	9507	44.86	14.44			
4218	27.15	5.15	8904	45.88	15.18	9515	53.00	21.04			
4413	36.45	9.24	9005	44.77	14.38	9523	44.38	14.10			
5012	37.43	9.77	9031	15.85	2.07	9926	53.23	21.25			
5420	52.77	20.84	9036	45.74	15.07	9975	35.51	8.75			
6408	56.31	24.22	9092	31.59	6.90	9981	27.81	5.39			

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 [www.tarkett.com](http://www.tarkett.com)