

# 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 Stratos EcoBase™**

Results:

Colour	L*	LRV	Colour	L*	LRV	Colour	L*	LRV
2916	55.45	23.37	7802	33.33	7.70	9096	38.17	10.18
2921	26.82	5.03	8213	40.62	11.63	9097	46.22	15.43
3421	20.49	3.11	8433	43.60	13.56	9503	37.60	9.87
4301	29.76	6.14	8501	29.82	6.17	9930	54.13	22.10
4432	41.89	12.43	8835	50.91	19.19	9955	44.96	14.51
5102	39.84	11.15	8901	22.90	3.77	9975	31.28	6.77
6102	55.43	23.35	9031	17.44	2.40	9986	28.23	5.54
7063	46.77	15.85	9093	36.60	9.32	9990	22.18	3.57

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)