

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

Product name: **DESSO Fields**

Results:

Colour	L*	LRV	Colour	L*	LRV	Colour	L*	LRV
1052	61.52	29.84	7944	41.42	12.13	9093	34.71	8.35
2912	37.36	9.73	8813	39.46	10.93	9095	36.35	9.19
2914	43.60	13.56	8822	36.27	9.15	9111	25.63	4.62
2915	46.75	15.83	8834	46.76	15.84	9515	52.04	20.18
4218	28.20	5.53	8901	23.58	3.97	9522	28.20	5.53
4301	28.10	5.49	8904	41.98	12.48	9524	43.57	13.54
5012	38.76	10.52	9021	20.61	3.14	9525	47.12	16.11
6218	51.64	19.82	9022	23.82	4.04	9527	59.03	27.06
7072	43.24	13.32	9024	36.32	9.17	9945	43.08	13.21
7231	31.09	6.69	9092	24.23	4.17	9980	31.61	6.91

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