

Test 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: **Tempra**

Results:

Colour	L*	LRV
2036	47.04	16.05
9023	36.59	9.32
8412	31.87	7.03
3021	25.96	4.73
7331	28.33	5.58
3011	42.52	12.84
7274	28.16	5.52
8822	32.28	7.21
6203	51.06	19.32
8831	31.37	6.81
1710	44.52	14.20
8502	27.64	5.32
3841	19.94	2.97
6112	46.14	15.37
9091	21.60	3.41
8904	50.37	18.73
9501	28.37	5.60
8212	25.02	4.42
8524	40.64	11.64
1304	55.52	23.44

Colour	L*	LRV
1320	51.59	19.78
3831	18.74	2.69
9533	43.59	13.55
9502	35.30	8.65
6211	37.89	10.02
9504	46.59	15.71
6018	46.95	15.98
7261	36.43	9.23
9095	44.61	14.26
9532	25.42	4.55
9021	24.19	4.16
3007	22.31	3.60
3013	31.24	6.75
8213	32.06	7.11
2063	33.26	7.66
4331	30.94	6.62
2045	40.85	11.77
4101	24.79	4.35
8225	48.94	17.54
5128	32.65	7.38

Colour	L*	LRV
2108	24.50	4.26
2041	32.90	7.49
8903	41.96	12.47
2127	22.39	3.62
2088	16.66	2.23
2051	26.19	4.81
8111	25.53	4.59
5011	26.78	5.02
9513	31.46	6.85
5202	34.37	8.19
9093	38.99	10.65
9022	32.01	7.09
9531	20.36	3.08
2031	25.49	4.57
5411	37.36	9.73
4311	25.91	4.71
2081	18.94	2.73
9511	21.55	3.39
8801	26.05	4.76
3421	18.31	2.59

- 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.desso.com