

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: **Torso**

Results:

Colour	L*	LRV
2053	31.30	6.78
9104	40.71	11.68
9193	24.93	4.39
9092	19.69	2.91
9094	48.21	16.96
4323	37.81	9.98
4202	26.24	4.83
5021	29.39	5.99
2952	18.03	2.52
5213	43.80	13.70
2915	45.43	14.85
2117	24.56	4.27
2921	22.56	3.67
2102	22.06	3.53
5103	37.76	9.95
2931	34.40	8.20
2914	32.57	7.34
2087	26.57	4.94
2922	26.33	4.86
4021	17.00	2.30

Colour	L*	LRV
8903	26.60	4.95
9502	25.88	4.71
3901	23.01	3.80
8823	43.79	13.69
9505	51.74	19.92
3111	24.23	4.17
9012	18.88	2.72
9024	33.25	7.65
3011	25.05	4.43
9025	53.34	21.36
8517	36.49	9.27
9975	38.67	10.47
9113	21.86	3.48
7290	37.07	9.57
9022	23.16	3.85
8803	32.12	7.14
8501	29.75	6.13
8433	38.84	10.56
9533	35.10	8.55
3922	32.38	7.25

Colour	L*	LRV
2047	33.75	7.89
7261	45.06	14.59
8412	37.37	9.74
7942	30.55	6.46
7922	29.36	5.98
8813	19.45	2.85
6102	57.89	25.84
7322	36.33	9.18
8521	22.10	3.54
8422	26.43	4.89
7811	25.98	4.74
7863	39.02	10.67
9061	17.98	2.51
7082	48.15	16.91
8411	37.02	9.55
8161	24.21	4.17
7412	33.56	7.80
5421	48.34	17.06
2042	24.04	4.11
8311	29.30	5.95

- 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