

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 Torso**

Results:

Colour	L*	LRV	Colour	L*	LRV	Colour	L*	LRV	Colour	L*	LRV
2042	24.04	4.11	3922	32.38	7.25	7863	39.02	10.67	8903	26.60	4.95
2047	33.75	7.89	4021	17.00	2.30	7922	29.36	5.98	9012	18.88	2.72
2053	31.30	6.78	4202	26.24	4.83	7942	30.55	6.46	9022	23.16	3.85
2087	26.57	4.94	4323	37.81	9.98	8161	24.21	4.17	9024	33.25	7.65
2102	22.06	3.53	5021	29.39	5.99	8311	27.30	5.95	9025	53.34	21.36
2117	24.56	4.27	5103	37.76	9.95	8411	37.02	9.55	9061	17.98	2.51
2914	32.57	7.34	5213	43.80	13.70	8412	37.37	9.74	9092	19.69	2.91
2915	45.43	14.85	5421	48.34	17.06	8422	26.43	4.89	9094	48.21	16.96
2921	22.56	3.67	6102	57.89	25.84	8433	38.84	10.56	9104	40.71	11.68
2922	26.33	4.86	7082	48.15	16.91	8501	29.75	6.13	9113	21.86	3.48
2931	34.40	8.20	7261	45.06	14.59	8517	36.49	9.27	9193	24.93	4.39
2952	18.03	2.52	7290	37.07	9.57	8521	22.10	3.54	9502	25.88	4.71
3011	25.05	4.43	7322	36.33	9.18	8803	32.12	7.14	9505	51.74	19.92
3111	24.23	4.17	7412	33.56	7.80	8813	19.45	2.85	9533	35.10	8.55
3901	23.01	3.80	7811	25.98	4.74	8823	43.79	13.69	9975	38.67	10.47

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