

# 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: **Pallas T**

Results:

Colour	L*	LRV
3831	29.30	5.95
9985	24.42	4.23
9980	22.63	3.69
2922	32.15	7.15
2043	47.01	16.02
6003	56.85	24.77
5012	42.58	12.88
4321	31.04	6.67
2048	41.73	12.33
6111	48.37	17.09
4302	36.44	9.24
4202	28.41	5.61
5421	43.67	13.61
2088	31.78	6.99
2118	29.24	5.93
4031	24.33	4.20
9092	34.34	8.17
2077	33.21	7.63
7914	48.55	17.23
8172	38.24	10.22

Colour	L*	LRV
8222	35.05	8.52
8522	36.56	9.30
8922	35.99	9.00
8011	31.37	6.81
8831	28.96	5.82
8423	39.01	10.66
7913	43.86	13.74
7412	33.90	7.96
8813	44.78	14.38
8432	28.97	5.83
2006	45.85	15.16
7272	42.90	13.09
8301	38.82	10.55
8501	26.63	4.96
7124	47.53	16.43
7383	40.43	11.51
8512	27.99	5.45
8803	22.10	3.54
9533	39.54	10.98
9052	33.78	7.90

Colour	L*	LRV
9106	42.91	13.09
2914	51.60	19.79
9516	50.25	18.63
9502	38.73	10.50
9095	41.82	12.38
2022	46.27	15.47
8823	38.06	10.12
9506	51.28	19.51
9093	31.32	6.79
2033	41.61	12.25
9021	34.48	8.24
9513	43.62	13.58
9094	41.46	12.15
1710	43.39	13.42
2126	29.15	5.90
9002	26.82	5.03
9091	26.94	5.07
2951	25.32	4.52
4032	25.79	4.68
9012	24.94	4.40

- 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](http://www.desso.com)**