

Luminance Contrast Report

Product:Duratac Polymeric Individual TactileProduct Code:TGSI-P/ - VariousAddress:8a Lara Way, Campbellfield VIC 3061Testing Date:16/08/2022

As requested, we have determined the luminance contrast of the sample provided. These test results and report should be used as a good guidance only with the test method specified in the standards AS/NZS 1428.4.1.2009 Paragraph E3, Appendix E.

Product

Product Name:

Duratac Polymeric Individual Tactile

Product Description: Discrete Hazard Tactile - Polymer Construction



*Blue, Grey & White not pictured

Test Results

Overall view of test results per colour - Please see table of results on next page

Colour	Dry LRV Average	Wet LRV Average
Black	3.710	2.475
Blue	10.862	10.287
Grey	14.268	14.045
White	91.879	91.801
Yellow	47.811	47.105





Table of LRV Results

Dry Measurements

Wet Measurements

Dry Measurements

Wet Measurements

Colour	Black
3.719	3.733
3.711	3.74
3.743	3.585
3.794	3.691
3.862	3.614
3.559	3.698
3.794	3.665
3.74	3.703
3.829	3.651
3.788	3.674
Mean Dry	2 71

2.43 3.015 2.523 1.74 1.769 2.491 2.3 2.795 2.623 2.77 2.377 2.447 1.877 1.748 2.674 2.996 2.768 2.642 2.764 2.743 Mean 2.475 Wet LRV

Colour	Blue
11.057	10.685
10.875	10.487
11.178	10.83
10.993	10.89
10.763	10.955
11.037	10.689
10.74	10.958
10.994	10.331
11.225	10.93
10.907	10.72
Mean Dry LRV	10.862

10.212 10.683 10.652 10.374 10.038 10.614 10.24 10.092 10.49 10.429 9.865 9.889 10.16 10.161 10.249 10.089 10.156 9.91 10.918 10.525		
10.03810.61410.2410.09210.4910.4299.8659.88910.1610.16110.24910.08910.1569.9110.91810.525	10.212	10.683
10.2410.09210.4910.4299.8659.88910.1610.16110.24910.08910.1569.9110.91810.525	10.652	10.374
10.49 10.429 9.865 9.889 10.16 10.161 10.249 10.089 10.156 9.91 10.918 10.525	10.038	10.614
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10.1610.16110.24910.08910.1569.9110.91810.525	10.49	10.429
10.24910.08910.1569.9110.91810.525	9.865	9.889
10.1569.9110.91810.525	10.16	10.161
10.918 10.525	10.249	10.089
101010	10.156	9.91
Mean	101010	10.525
	Mean	40.207

10.287 Wet LRV

Colour Grey 14.983 14.593 14.268 13.817 14.154 14.155 14.583 14.46 14.135 14.15 14.986 14.576 14.012 13.982 15.033 14.805 14.236 13.844 13.825 13.799 Mean Dry

3.71

14.296	14.018
13.753	13.788
14.16	14.225
13.769	13.769
14.043	13.964
13.956	14.003
13.992	13.97
14.49	14.184
14.053	14.452
13.649	14.371
Mean Wet LRV	14.045

Colour	White
91.58	91.573
91.822	91.771
93.377	93.472
91.214	90.919
91.821	91.616
91.753	91.724
90.968	90.73
93.282	93.306
91.782	91.736
91.698	91.43
Mean Dry LRV	91.879

91.574	91.317
90.766	90.872
93.29	93.191
92.139	92.08
91.452	91.52
91.324	91.48
91.88	91.96
93.085	93.21
91.065	90.489
91.771	91.563
Mean Wet LRV	91.801

LRV Colour

LRV

14.268 Yellow

48.25	48.135	
48.134	48.705	
47.581	48.201	
48.299	48.27	
48.188	48.32	
48.804	48.037	
48.036	48.274	
48.134	48.127	
48.162	48.19	
48.236	48.279	
Mean Dry	47.811	
LRV	47.811	

46.31	46.513
47.495	47.545
46.9	46.973
45.88	47.469
46.778	47.72
47.401	47.402
47.362	47.29
47.148	46.682
47.196	47.042
47.51	47.478
Mean	47.405
Wet LRV	47.105

Page 2



Term	Definition
Luminance contrast	The light reflected from one surface or component, compared to the light
	reflected from another surface or component.
LRV	Luminance reflective value
Bowman-Sapolinski	To determine the luminance contrast between the samples tested, the
equation	LRVs are entered into the Bowman-Sapolinski equation:
	C = 125 (Y2 – Y1)/(Y1 + Y2 + 25), where:
	C = luminance contrast
	Y1 and Y2 = LRV of each surface
TGSI	Tactile Ground Surface Indicator
Integrated TGSI	Tactile ground surface indicators that are in a defined pattern and which
	are of the same luminance and material as the base surface.
Discrete TGSI	Individually installed TGSIs, which provide the same luminance for the
	sloping sides and upper surface of the truncated cone.
Composite Discrete	Tactile ground surface indicators that are individually installed and which
TGSI	provide a differing luminance for the sloping sides and upper surface of the
	truncated cone.
Stair Nosing	A strip not less than 50 mm and not more than 75 mm deep across the full
	width of the path of travel.

Onsite Laboratory Testing Equipment

Sterling Supplies uses compliant testing apparatus meeting AS/NZS 1428.4.1 Appendix E requirements:

- Model: Konica Minolta CR-400 tristimulus colorimeter
- Illuminating and viewing system: Diffuse illumination/0<° (d/0) viewing angle, specular component included.
- Conforms to JIS Z 8722 condition c standard
- Light source: Pulsed xenon lamp
- Measurement time: 1 second
- Minimum measurement interval: 3 seconds
- Measurement / illumination area; Ø 8mm
- Observer: 2° Closely matches CIE 1931 Standard Observer
- Illuminant used: CIE Standard Illuminant D65
- Colour space and colorimetric data: CIE for Yxy

Testing Methodology

The following is a summary of the testing methodology, conducted in accordance with requirements of AS 1428.4.1, Clause E3.3:

- The apparatus was firstly calibrated in accordance with the manufacturer's instructions.
- The tristimulus value 'Y' (LRV measurements) were taken of the surface in random locations in dry & wet conditions.
- 20 measurements were taken. See table of results.
- Surface area was swept with a rag to remove dust particles and soiling prior to testing
- Wet Measurements were determined after 5 minutes of water ponding on the surface.