

## Accelerated Weathering Results

Test Method: ASTM G155 Cycle 1

Hours Exposed: 2000

Colour	Description	A/B Side	dE	Gloss %
Black	Competitor Product -Access	A	1.6	N/A
Black	Competitor Product - Chinese	A	2.85	N/A
Black	CME Tactile	A	0.71	188
Black	CME Tactile	B	1.74	65
White	Competitor Product - Access	A	1.44	N/A
White	Competitor Product- Chinese	A	3.99	N/A
White	CME Tactile	A	1.24	89
White	CME Tactile	B	0.93	47
Yellow	Competitor Product - Access	A	8.03	N/A
Yellow	Competitor Product - Access	B	2.34	N/A
Yellow	CME Tactile	A	8.18	94
Yellow	CME Tactile	B	10.3	35

A Side = Heavily Textured

B Side = Mostly Flat and Plain

Gloss is measured as a retention of original Gloss level.

Competitor Product – Access currently used in Australia and serves as a Benchmark

### Guide for Delta E

Less than 1 – Smallest colour difference that is seen by naked eye

More than 2 less than 6 – Barely Perceptible colour change

More than 6 less than 10 – Acceptable for most Industrial Products

More than 10 – Colour Fade readily noticed.

### Summary of Results to date:

Black and White CME Tactiles performing better than Benchmark and Competitive products

Yellow CME Tactile is weathering similar to Benchmark

The Chinese Competitive product in Black and White is performing the worse of all samples.

Differences between Textured and Plain surfaces measured but not significant.

Physical Property Retention – 2000 Hrs

	Tensile Strength MPa	Tensile Modulus GPa	Tensile Elongation %	Flexural Strength MPa	Flexural Modulus GPa
CME Tactile White	61.11	11.66	1.52	135	11.37
CME Tactile Yellow	59.53	10.92	1.72	169	11.42
CME Tactile Black	53.77	9.19	1.55	158	9.68

Tensile Properties = ASTM D638

Flexural Properties = ASTM D790

Summary of Results

CME Tactile Black measured lowest Physical properties overall but still remain consistent with non exposed Tactiles. Higher Specific Gravity of Black assists with explanation of reduced values.

All CME Tactiles measure insignificant changes in mechanical properties after 2000 hour weathering.

Future Work to be reported

3000 Hrs ASTM G155 Cycle 1

15000 Hrs ASTM G155 Cycle 3

Michael Lewis

lewis@composite.com.au