

ADHESIVE TECHNICAL SERVICES LTD

**TESTING OF SELF ADHESIVE LABEL
REFERENCE 'GL1750 NEURALOG' TO
BS 5609 SECTION THREE FOR
RELIANCE LABEL SOLUTIONS Inc.**

5th September 2014

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INTRODUCTION

Samples of self adhesive labels were supplied by Reliance Label Solutions Inc. in June 2014, for testing to BS 5609 Section Three.

The material supplied had the reference 'GLOBALABEL GL1750 with printing using a Neuralog, Neuralabel 500e Continuous Color Laser Printer with Neuralabel Specific Toner Cartridges'.

SUMMARY OF RESULTS

Section Three Part 8.1 : Print Key : PASS

Section Three Part 8.2 : Abrasion Resistance : PASS

Section Three Part 8.3 : Permanence of Print Colour : PASS

CONCLUSIONS

Reliance Label Solutions Inc. self adhesive label reference 'GLOBALABEL GL1750 with printing using a Neuralog, Neuralabel 500e Continuous Color Laser Printer with Neuralabel Specific Toner Cartridges' meets the requirements of BS 5609 Section Three.

TEST METHODS

Section Three

Part 8.1 – Print Key Effectiveness

Key Test	Adhesive tape applied to label and removed at 90° angle according to Appendix H.
Ink removal	Visual assessment of percentage area removed for each colour.
Colour Intensity	Grey scale measurement according to Appendix G.

Part 8.2 – Abrasion Resistance

Abrasion test	Abrasion by sand between two rotating rods according to Appendix J.
Colour Fastness	Grey scale measurements according to Appendix G.
Hue	Visual assessment.
Legibility	Visual inspection.

Part 8.3 – Colour Fastness

Weathering	Samples exposed to laboratory artificial weathering in accordance with Appendix E.
Colour Fastness	Grey scale measurements according to Appendix G.
Hue	Visual assessment.
Legibility	Visual inspection.

RESULTS

Section Three – Part 8.1 : Print Key Effectiveness

Specification	Maximum ink removal 5% for each colour. Maximum change of colour intensity of 3 compared to untested label.
Removal of Ink	: Yellow : No print removal : Magenta : Slight print removal <5% : Cyan : Slight print removal <5% : Black : Slight print removal <5%
Change in Colour Intensity	: Yellow : 0 : Magenta : 0 : Cyan : 0 : Black : 0
Test Result	: Yellow : PASS : Magenta : PASS : Cyan : PASS : Black : PASS

Section Two – Part 8.2 : Abrasion Resistance

Specification	Colour fastness rating not less than 2 compared to unabraded specimen. Colour to remain recognisable as original hue. Text and/or symbols to remain legible and identifiable.
Colour Fastness	: Yellow : 4 - Slight print removal : Magenta : 4 - Slight print removal : Cyan : 4 - Slight print removal : Black : 3 - Some print removal
Hue	: Yellow : Recognisable as original hue : Magenta : Recognisable as original hue : Cyan : Recognisable as original hue : Black : Recognisable as original hue
Legibility	: All text remained legible
Test Result	: Yellow : PASS : Magenta : PASS : Cyan : PASS : Black : PASS

Section Three – Part 8.3 : Performance of Print: Colour Fastness

Specification	Colour fastness rating not less than 2 compared to unweathered specimen Text and/or symbols to remain legible and identifiable.
Colour Fastness	: Yellow : 5 : Magenta : 4.5 : Cyan : 5 : Black : 4.5
Hue	: Yellow : Recognisable as original hue : Magenta : Recognisable as original hue : Cyan : Recognisable as original hue : Black : Recognisable as original hue
Legibility	: All text remained legible
Test Result	: Yellow : PASS : Magenta : PASS : Cyan : PASS : Black : PASS

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