



Test Report

No. QDSL1502002374TX

Date: Feb 04, 2015

Page 1 of 4

HUANGHUA COLOR INKJET TECHNOLOGY CO., LTD
HUANGHUA ECONOMICAL DEVELOPMENT ZONE, HEBEI, 061100 CHINA

**THIS REPORT IS THE ENGLISH VERSION OF THE TEST REPORT NO. QDSL1412010689TX
DATE: DEC. 29, 2014**

The following sample(s) was/were submitted and identified by the client as:

Sample Description : One sample of woven cutting in white with multicolor heat transfer print

Manufacturer : HUANGHUA COLOR INKJET TECHNOLOGY CO., LTD

Test Performed : Selected test(s) as requested by applicant

* * * * *

Sample Receiving Date : DEC. 18, 2014

Test Performing Period : DEC. 18, 2014 - DEC. 29, 2014

Test Result(s) : For further details please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

Jenny Li (Account Executive)



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Qingdao Branch Laboratory

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Test Result

Color Fastness to Washing (ISO 105 -C06:2010; Test No.A2S; mechanical wash at 40 degree C; with 4g/l 'ECE' (B) detergent and 1g/l sodium perborate solution with 10 steel balls)

Change in shade	4-5 (all colors)
Staining on multi-fiber stripe	
Acetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5
Cross staining	5

Color Fastness to Rubbing (ISO 105- X12:2001; Size of rubbing finger: 16mm dia.)

Dry staining	4-5
Wet staining	4-5

Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Color Fastness to Light (ISO 105-B02:2013; method 3, use Xenon arc lamp, exposure cycle A1, no flip-flop mode was used)

	M100 M100Y10			M100Y20	M100Y30	M100Y40		
<u>Comparison upto blue wool reference 5</u>								
Grade (B.W.S.)	5	5		5		5		5
	M100Y50 M100Y60			M100Y70	M100Y80	M100Y90		
<u>Comparison upto blue wool reference 5</u>								
Grade (B.W.S.)	5		5	5		5		5
	C100M100Y100K100			K90	K80	K70	K60	K50 K40
<u>Comparison upto blue wool reference 5</u>								
Grade (B.W.S.)	5			4	4	4	4-5	4-5 4-5
	K30	K20	K10	M99Y100	M90Y100	M80Y100		
<u>Comparison upto blue wool reference 5</u>								
Grade (B.W.S.)	4-5	4-5	4-5	5		5		5
	M70Y100		M60Y100	M50Y100	M40Y100	M30Y100		
<u>Comparison upto blue wool reference 5</u>								
Grade (B.W.S.)	5		5	5		5		5
	M20Y100		M10Y100	C100Y100	C90Y100	C80Y100		
<u>Comparison upto blue wool reference 5</u>								
Grade (B.W.S.)	5		5	5		5		5



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Color Fastness to Light(ISO 105-B02:2013; method 3, use Xenon arc lamp, exposure cycle A1, no flip-flop mode was used)

	C70Y100	C60Y100	C50Y100		C40Y100	C30Y100
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	5	5	5		5	5
	C20Y100	C10Y100	C100	C100Y10	C100Y20	C100Y30
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	5	5	4-5	4-5	4-5	5
C100Y30						
	C100Y40	C100Y50	C100Y60		C100Y70	C100Y80
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	5	5	5		5	5
	C100Y90	C100M10	C100M20		C100M30	C100M40
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	5	4-5	4-5		4-5	4-5
	C100M50	C100M60	C100M70		C100M80	C100M90
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	4-5	4-5	4-5		4	4
	C100M100	C10M100	C20M100		C30M100	C40M100
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	4	5	4-5		4	4-5
	C50M100	C60M100	C70M100		C80M100	C90M100
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	4-5	4-5	4-5		4	4-5
	C95M100	Y100	C100	C91M89Y87K79		C93M88K89K80
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	4-5	5	4-5	5	5	
	White					
<u>Comparison upto blue wool reference 5</u>						
Grade (B.W.S.)	5					



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Sample photo



End of Report