



# COMMERCIAL TESTING COMPANY

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Report Number 16-11462

HP, Inc.  
 San Diego, California

Test Number 4550-1621-1016R3  
 August 5, 2014

ASTM F793

**Test Method:** The material was tested in accordance with ASTM International standard classification F793-10a, *Wall Covering by Use Characteristics*, which covers the classification of wall covering according to its serviceability in use.

**Material Tested:** The client submitted a sample of wall covering identified as **HP PVC-free Durable Wall Paper Printed with the HP Latex 500 Printer Series and HP 871/831 Latex Inks, HP Latex 1000 Printer Series and HP 881 Latex Inks and the HP Latex 3000 Printer Series and HP 3M 891/881 Latex Inks.**

Characteristic	Category V Type II Requirement	Test Data	Test Result
Colorfastness to Light	≥ 200 h	200 hours	Pass
Washability	≥ 100	100 cycles	Pass
Scrubability	≥ 300	300 cycles	Pass
Abrasion Resistance	≥ 300	300 cycles	Pass
Breaking Strength, Machine Direction	≥ 50 lbf	146 lbf	Pass
Breaking Strength, Cross Machine	≥ 55 lbf	102 lbf	Pass
Crocking, Dry	Good	Excellent	Pass
Stain Resistance to Reagents	1-12	(See Note)	Pass
Tear Resistance, Machine Direction	≥ 400 gf	2227 gf	Pass
Tear Resistance, Cross Machine	≥ 400 gf	832 gf	Pass
Blocking Resistance	≤ 2	1	Pass
Coating Adhesion (MD), lbs/inch	≥ 3	3.0	Pass
Coating Adhesion (CMD), lbs/inch	≥ 3	3.1	Pass
Cold Crack Resistance	No Change	No Change	Pass
Heat Aging Resistance	Pass	Pass	Pass
Shrinkage, Machine Direction	≤ 2%	0.16%	Pass
Shrinkage, Cross Machine Direction	≤ 1%	-0.35%	Pass

**Note — Stain Resistance**

Reagent	Rating	Reagent	Rating
(1) 75°F distilled water	5	(7) standard soap solution	5
(2) 120°F distilled water	5	(8) detergent solution	5
(3) 50% ethyl alcohol	5	(9) orange juice	4.5
(4) vinegar	4	(10) butter	4
(5) 1% NaOH solution	4.5	(11) catsup	5
(6) 5% HCl	4	(12) tea	4

Note: The rating system is based on the AATCC *Nomenclature for Subjective Rating Processes* in which a rating of 5 = negligible or no staining, 4 = slight staining, 3 = noticeable staining, 2 = considerable staining, and 1 = severe staining. A rating of less than 4 is considered "appreciable" in relation to severity of change.

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(Authorized Signature)

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