## ISO 18948:2018 (E)

## Imaging materials — Photo books — Test methods for permanence and durability

## **Contents**

	Foreword			
	Intro	Introduction		
1	Scop	Scope		
2	Norm	Normative references		
3	Torm	s and definitions		
4	_	e permanence tests for covers and pages		
	4.1	General		
	4.2	Sample preparation		
	4.3	Thermal stability during long-term dark storage		
	4.3.1	General		
	4.3.2	Procedures		
	4.3.3	Reporting		
	4.4	Light stability		
	4.4.1	General		
	4.4.2	Covers		
	4.4.3	Pages		
	4.4.4			
	4.4.4	Reporting Ozone stability		
	4.5 4.5.1	General		
	4.5.1			
	4.5.3	Covers		
		Pages		
	4.5.4	Reporting		
	4.6	Humidity stability		
	4.6.1	General		
	4.6.2	Covers and pages		
_	4.6.3	Reporting		
5 Book integrity te				
	5.1	General		
	5.2	Ageing conditions		
	5.3	Page pull test		
	5.3.1	General		
	5.3.2	Test procedure		
	5.3.3	Alternate test procedure		
	5.3.3.1	General		
	5.3.3.2	Preparation of test specimen		
	5.3.3.3	Application of the preload		
	5.3.3.4	Execution of the pull procedure		
	5.3.3.5	Inspection		
	5.3.4	Calculation of the binding strength		
	5.4	Peeling and lamination durability		
	5.4.1	General		
	5.4.2	Resistance to delamination		
	5.4.3	Assessment of age related lamination and binding strength		
	5.4.4	Peeling resistance and lamination bond strength for protective laminate		
	5.4.5	Internal bond strength for glued single side sheets		
	5.4.6	Test sample preparation, results assessment and reporting		
	5.5	Book block attachment to the cover (heat durability)		

	5.5.1 5.5.2 5.5.3	General Book binding strength (heat durability) Opening and closing durability
6		s blocking
		· ·
	6.1	General
	6.2	Test conditions
	6.3	Test target design
	6.4	Conditioning of test specimen
	6.5	Test methods
	6.5.1	General
	6.5.2	Equipment and calibration
	6.5.3	Test environment control
	6.5.4	Long term storage (hot/dry) test
	6.5.5	Long term storage (warm/humid) test
	6.5.6	Short term transport test
	6.6	Evaluation
	6.6.1	General considerations
	6.6.2	Reporting
_	6.6.3	Additional evaluations
7		rmation caused by humidity
	7.1	Page deformation of a photo book (waviness)
	7.1.1	General
	7.1.2	Procedure
	7.1.3 7.2	Reporting Cover deformation of a photo book (warp)
	7.2.1	General
	7.2.1	Procedure
	7.2.3	Reporting
Annex		rmative) Guidelines for data interpretation
Aillex	A (IIIIO	mative) Guidennes for data interpretation
Annex	B (info	rmative) Abrasion
	B.1	General
	B.2	Procedures
	B.2.1	Test method selection
	B.2.2	Test condition — Non-cloth covers
	B.2.3	Test condition — Pages
	B.2.4	Test condition — Cloth or leather covers
	B.2.5	Evaluation and reporting
Annex	•	rmative) Extreme photo book tests
	C.1	Subway test
	C.2	MIT fold test
	C.3	Test method for tensile page flex
	C.4	Test method for Elmendorf tear (ISO 1974)
	C.5 C.6	Burst test — Mullen (ISO 2758) Test method for tensile strength (ISO 1924-2)
Annex		rmative) Sandwich thermal test method
Annex	יסוווו) ט	mative) Sandwich thermal test method
Annex	-	native) Lamination and delamination testing procedures
	E.1	Lamination
	E.1.1	Apparatus
	E.1.2	Procedure
	E.2	Delamination
	E.2.1	Sampling and specimen preparation
	E.2.2 E.2.3	Conditioning
	⊏.∠.3	Apparatus

Page count: 35