ISO 18912:2002-11 (E)

Imaging materials - Processed vesicular photographic film - Specifications for stability

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Film base requirements 3

5 Processed film requirements 3
5.1 Safety film 3
5.2 Tensile properties and loss in tensile properties 3

6 Requirements for the emulsion and backing layers of processed film 4
6.1 Layer adhesion 4
6.2 Blocking 4
6.3 Binder stability 4
6.4 Thermal sticking 4

7 Image stability requirements 4
7.1 Proper development 4
7.2 Residual diazonium-salt test 5
7.3 Light-fading 5
7.4 Dark-ageing of minimum-density area 5
7.5 Dark-ageing of vesicular image 5

8 Test methods 5
8.1 Identification of film base 5
8.2 Accelerated-ageing conditions 6
8.3 Tensile-property test for processed film 6
8.4 Tape-stripping adhesion test 7
8.5 Humidity-cycling adhesion test 8
8.6 Blocking test 8
8.7 Thermal sticking test 9

9 Image test methods 9
9.1 Densitometry 9
9.2 Proper development test 9
9.3 Residual diazonium-salt test 9
9.4 Light-fading test 10
9.5 Dark-ageing test for the minimum-density area 10
9.6 Dark-ageing test for the vesicular image 11

10 Classification for reporting 11

Annex A (informative) Numbering system for related International Standards 12

Annex B (informative) Distinction between film storage (record) copies and work (reference) copies 14

Annex C (informative) Microfilm image quality 15

Annex D (normative) Effects of heat and pressure 17

Annex E (informative) Effects of high humidity 18

Annex F (informative) Light-fading of vesicular images 19

Annex G (informative) Corrosiveness 20

Bibliography 21