ISO 14368-4:2020 (E)

Mineral and sapphire watch-glasses — Part 4: Anti-reflective treatment

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Test methods and evaluation of results

- 4.1 General
- 4.2 Optical characterization
- 4.2.1 Luminous transmittance
- 4.2.1.1 Apparatus with integration sphere
- 4.2.1.2 Apparatus without integration sphere
- 4.2.2 Luminous reflectance and colour
- 4.2.3 Evaluation of results
- 4.3 Adhesive force
- 4.3.1 Test method
- 4.3.2 Evaluation of results
- 4.4 Humidity test
- 4.4.1 Test method
- 4.4.2 Evaluation of results
- 4.5 Thermal shock test
- 4.5.1 Test method
- 4.5.2 Evaluation of results
- 4.6 Salt spray test
- 4.6.1 Test method
- 4.6.2 Evaluation of results
- 4.7 Synthetic sweat test
- 4.7.1 Test method
- 4.7.2 Evaluation of results
- 4.8 Abrasion resistance
- 4.8.1 Sample preparation
- 4.8.2 Test method
- 4.8.3 Evaluation of results
- 4.9 Scratch resistance
- 4.9.1 Test method
- 4.9.2 Evaluation of results
- 4.10 Sunlight resistance
- 4.10.1 Test method
- 4.10.1.1 Equipment
- 4.10.1.2 Test conditions
- 4.10.1.3 Operating procedure
- 4.10.2 Evaluation of results
- 4.11 Cleaning test
- 4.11.1 Test method
- 4.11.2 Evaluation of results

Annex A (informative) Optical characterization of watch-glasses

- A.1 Luminous transmittance
- A.2 Luminous reflectance and colour
- A.3 Drawings
- A.3.1 Light paths through watch-glass

A.3.2 Reflectance measurement using integration sphere

Annex B (informative) Examples of test conditions parameters to sunlight

B.1 Xenon lamps
B.2 Metallic halide lamps

Page count: 12