

ISO 8980-4:2026-06 (E)

Ophthalmic optics - Uncut finished spectacle lenses - Part 4: Specifications and test methods for the properties of anti-reflective coatings and hydrophobic coatings

Contents

Page

Foreword.....	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirements.....	2
4.1 General requirements.....	2
4.2 Usable diameter of coated area	3
4.3 Luminous and mean reflectances.....	3
4.4 Water repellency.....	3
4.5 Durability.....	3
5 Testing.....	3
5.1 General.....	3
5.2 Anti-reflective coating.....	3
5.2.1 Method of determination of spectral reflectance.....	3
5.2.2 Determination of spectral reflectance values.....	4
5.2.3 Determination of luminous reflectance	4
5.2.4 Determination of mean reflectance	4
5.2.5 Information to be made available on request.....	4
5.3 Hydrophobic coating.....	5
5.3.1 Contact angle measurement apparatus.....	5
5.3.2 Water for testing.....	5
5.3.3 Sample.....	5
5.3.4 Procedure	5
5.4 Determination of durability.....	6
5.4.1 Equipment and consumables.....	6
5.4.2 Test specimens	6
5.4.3 Test method: environmental cycling combined with rubbing sequences.....	6
5.4.4 Evaluation.....	7
6 Reference to this document.....	7
Annex A (informative) Significance of ρ_v and ρ_M in the description of anti-reflective coated lenses.....	8
Annex B (normative) Environmental sequence.....	9
Annex C (normative) Rubbing sequence procedure	11
Annex D (normative) Evaluation of surface quality.....	13
Annex E (informative) Examples of lenses passing and failing the visual evaluation	15
Annex F (informative) Examples of environmental sequence.....	16
Annex G (informative) Examples of a rubbing tool and components	18
Annex H (informative) Example of a contact angle test apparatus	20
Bibliography.....	22