ISO 21987:2009-10 (E)

Ophthalmic optics - Mounted spectacle lenses

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Classification 2

5 Requirements 2
5.1 Reference temperature 2
5.2 Lenses used in manufacturing complete spectacles 2
5.3 Optical requirements 2
5.4 Thickness tolerance 6
5.5 Positioning tolerances 6

6 Test methods 8
6.1 General 8
6.2 Measurement method for the back vertex power of single-vision lenses and the distance portion of multifocal and progressive-power lenses and near portion of degressive-power lenses 8
6.3 Measurement method for cylinder axis 8
6.4 Addition power measurement 8
6.5 Method for measuring position and tilt 10
6.6 Material and surface quality 10
6.7 Prism imbalance (relative prism error) measurement method for pairs of single-vision and multifocal lenses 10

7 Marking for progressive-power and degressive-power lenses 10
7.1 Permanent marking 10
7.2 Non-permanent marking 11

8 Identification 11

9 Reference to ISO 21987 11

Annex A (informative) Material and surface quality 12

Annex B (informative) Recommendations on mounting 13

Annex C (informative) Alternative methods for measuring prism imbalance (relative prism error) for pairs of single-vision and multifocal lenses 15

Bibliography 17