

# ISO 20685-2:2023-09 (E)

## Ergonomics - 3-D scanning methodologies for internationally compatible anthropometric databases - Part 2: Evaluation protocol of surface shape and repeatability of relative landmark positions

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Test protocol for evaluating surface shape measurement .....	3
4.1	General aspects .....	3
4.2	Test sphere .....	3
4.3	Procedure .....	3
4.3.1	Measurement of test sphere .....	3
4.3.2	Calculation of quality parameters .....	4
4.3.3	Report .....	5
5	Test protocol for evaluating repeatability of landmark positions .....	5
5.1	General aspects .....	5
5.2	Test object .....	5
5.3	Landmarks .....	5
5.4	Procedure .....	7
5.4.1	Measurement .....	7
5.4.2	Calculation of quality parameter .....	7
5.4.3	Report .....	7
6	Evaluation of hidden area .....	7
6.1	General aspect .....	7
6.2	Recruitment of participants .....	8
6.3	Posture control and measurement .....	8
6.4	Procedure to evaluate the hidden area .....	8
6.5	Report .....	8
Annex A (informative)	Sample of test object .....	9
Annex B (informative)	Example of test and report .....	11
Annex C (informative)	Example of report of evaluation of hidden area .....	17
Annex D (informative)	Superimposition of landmark coordinate data from 10 scans and calculation of quality parameters .....	19
Bibliography .....		20