DIN ISO 5685:2025-04 (E)

Road vehicles - Testing the abrasion resistance of automotive glazing with the windscreen wiper test (ISO 5685:2022)

Contents

Page

National foreword ... **4**

National Annex NA (informative) **Bibliography** ... **5**

Foreword ... **6**

Introduction ... **7**

1 Scope ... **8**

2 Normative references ... **8**

3 Terms and definitions ... **8**

4 Principle ... **9**

5 Test Conditions ... **9**

6 Apparatus ... **9**
6.1 Abrasion testing device ... 9
6.2 Components to guide the wiper rubber ... 11
6.3 Specimen boxes with spacer plates ... 12
6.4 Haze measurement device ... 13
6.4.1 General ... 13
6.4.2 Haze measurements with a haze meter ... 14

7 Preparation of the abrasion testing device ... **16**
7.1 Settings of the abrasion testing device ... 16
7.2 Setting up the abrasion testing device ... 16
7.3 Inserting the wiper rubber into the wiper rubber holder ... 17
7.4 Load weight of the wiper rubber ... 18
7.5 Movement of the wiper rubber on the test piece ... 19
7.6 Checking the wiper rubber guidance ... 20

8 Preparation of the test pieces ... **20**
8.1 General ... 20
8.2 Cleaning the test pieces ... 21
8.3 Conditioning of the test pieces ... 21
8.4 Measurement of the initial haze of the test pieces ... 21
8.5 Insertion of the test pieces into the bottom opening of the specimen boxes ... 21

9 Completion of the abrasion testing device ... **23**
9.1 Positioning of the specimen boxes in the abrasion testing device ... 23
9.2 Mounting of the wiper bridge with wiper rubber holders and wiper rubbers on the abrasion testing device ... 23
9.3 Filling the standardized test dust suspension into the specimen boxes ... 23

10 Carrying out the abrasion process ... **24**
10.1 Carrying out the first 10 000 wiping cycles ... 24
10.2 Switching the positions of the specimen boxes after 10 000 wiping cycles ... 24
10.2.1 General ... 24
10.2.2 Switching the positions in the case of parallel orientation of the specimen boxes ... 24
10.2.3 Switching the positions in the case of series orientation of the specimen boxes ... 24

10.3 Remounting the wiper bridge 25
10.4 Carrying out the second 10 000 wiping cycles 25
11 Cleaning and visual assessment of the test pieces 25
12 Measurement of final haze 26
13 Evaluation and presentation of the results 26
14 Test report 26
Annex A (informative) **Sample templates 27**
Annex B (informative) **Statistical results of the round robin test to determine the reproducibility of the windscreen wiper test 35**
Bibliography 36