

ISO 22975-4:2023-07 (E)

Solar energy - Collector components and materials - Part 4: Glazing material durability and performance

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Classification of solar glass	2
4.1 General	2
4.2 Solar transmittance of untreated glass	2
4.3 Solar transmittance of single-side AR treated glass	2
4.4 Solar transmittance of double-side AR treated glass	2
5 Test methods for assessing material optical property of the glass	3
5.1 Preparation of test specimens	3
5.2 Measurements of solar transmittance	3
6 Tests for assessing the thermal stability of the glass	3
6.1 Apparatus	3
6.1.1 Hot oven	3
6.1.2 Cold bath	3
6.1.3 Basket	3
6.2 Specimens	3
6.2.1 Flat plate glass	3
6.2.2 Tube glass	4
6.3 Procedure	4
6.3.1 Ambient temperature	4
6.3.2 The hot oven	4
6.3.3 The cold bath	4
6.3.4 Heating the specimens	4
6.3.5 Cooling the specimens	4
6.3.6 Results	4
7 Thermal shock resistance	4
7.1 Test specimens	4
7.2 Temperature difference	4
7.3 Pass the test	4
7.4 Progressive test	5
7.5 High-level test	5
8 Thermal shock endurance	5
9 Report	5
Annex A (normative) Assessment of solar transmittance of solar glass	6
Annex B (Informative) General characteristics of glass materials	7
Bibliography	9