Test method for measurement of stress in glass

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Foreword


This standard replaces GB/T 18144—2000 Test method for measurement of stress in glass.

This standard, in comparison with GB/T 18144—2000, have the major changes as follows:

— Laminated glass applied to car’s front windshield and hot bending glass are added into and annealed glass is removed from the scope;
— Increase NDT method for measurement of edge stress in glass with coating;
— Specific values of instruments’ constants of the surface stress meter and edge stress meter are not reflected in the standard.

This Standard is put forward by China Building Materials Federation.

This standard is centralized by the National Architectural Glass Standardization Technical Committee.

This Standard is drafted by: China Building Material Test & Certification Center.

The main drafters of this Standard are: Xiao Pengjun, Wang Jingjing, Lu Fan.

The information concerning the previous versions of the Standard replaced by the Standard is as follows:

Test method for measurement of stress in glass

1 Scope
This standard stipulates the definitions and methods related to the tests on surface stress and edge stress of glass. In this standard, the method of surface stress test is suitable for toughened glass and half-toughened glass made of float glass; the method of edge stress test is fit for toughened glass, half-toughened glass, laminated glass of car’s front windshield, and hot bending glass.
For chemical toughened glass, please refer to the method of surface stress test in this standard.
This test method is a method of nondestructive measurement.

2 Normative references
The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.
JC/T 632 Road vehicles-safety glazing materials-terminology

3 Terms and definitions
For the purpose of this standard, the following terms and definitions and those established in JC/T 632 apply.

3.1 Polarizer
A kind of optical device, through which natural light becomes plane-polarized light with a certain vibration direction, and which is usually placed between the light source and samples under test.

3.2 Analyzer
A kind of optical device, through which natural light becomes plane-polarized light with a certain vibration direction, and which is usually placed between the observer and samples under test., also called analyzing glass.
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