

BS 5852: Part 2:1982

Fire tests for furniture – Part 2. Methods of test for the ignitability of upholstered composites for seating by flaming sources.

The standard is used to assess the ignitability of material combinations, such as covers and fillings used in upholstered seating, when subjected to different ignition sources of gas flames and small wooden cribs.

Product Scope

This British Standard describes methods for assessing the ignitability of single material combinations:

- > Covers used in upholstered seating
- > Interlinings used in upholstered seating
- > Fillings used in upholstered seating
- > Upholstery Composites test
- > Complete items of seating

Pre-treatment

Prior to testing the sample is subjected to a water-soak procedure as described in BS 5651:1978, Clause 4, then line dried and conditioned at indoor ambient conditions for 72 hours, followed by further conditioning in a standard atmosphere having a temperature of 20 degrees Celsius and relative humidity of 50% r.h. for a minimum of 16 hours.

Test Method

The tests are performed in a test cabinet with a calibrated air flow. The cover fabric and the filling are put in a test rig to create a small sofa with a 90° angle between seat and back. The ignition sources are located in the junction between seat and back. There are six different ignition sources, numbered 2-7. Ignition sources 2-3 are gas flames and ignition sources 4-7 are wooden cribs (the higher number the larger gas flame/crib).

During the gas flame tests the test assembly is not allowed to smoulder for more than 30 minutes from the start of the test (60 minutes for wooden cribs). The test assembly is not allowed to show evidence of charring more than 100 mm in any direction apart from upwards from the ignition source. The gas flames are removed after 40 seconds (ignition source 2) or 70 seconds (ignition source 3). No flaming is allowed to continue for more than 120 seconds after removal of the burner tube. No flaming is allowed to continue for more than 10 minutes after start of the test with ignition source 5 (13 minutes with ignition source 6-7).