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Flammability of Interior Materials for Buses

客车内饰材料的燃烧特性

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Flammability of Interior Materials for Buses

1 Scope

This Standard stipulates the terms and definitions, technical requirements, test methods and the requirements of implementation date of flammability of interior materials for buses.

This Standard is applicable to the assessment of flammability of interior materials for Type-M₂ and Type-M₃ buses.

This Standard does not include electrical devices (various electric appliance modules, such as air conditioning assembly control switch, wiring harness, electric appliance control panel, navigator, radio, DVD module and driving combination meter), lamps, airbags (curtains), bathroom accessories (such as toilet, washbasin and water tank) and laminboard whose external layer is metallic material and internal layer is non-metallic material.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

GB/T 2406.2-2009 Plastics - Determination of Burning Behavior by Oxygen Index - Part 2: Ambient-temperature Test (ISO 4589-2:1996, IDT);

GB/T 2918 Plastics - Standard Atmospheres for Conditioning and Testing;

GB/T 5454 Textiles - Burning Behavior - Oxygen Index Method (GB/T 5454-1997, neq ISO 4589:1984);

GB 8410 Flammability of Automotive Interior Materials;

GB 8624-2012 Classification for Burning Behavior of Building Materials and Products;

GB/T 8627 Test Method for Density of Smoke from the Burning or Decomposition of Building Materials;

GB/T 10707 Rubber - Determination of the Burning;

GB/T 11785 Reaction to Fire Tests for Floorings - Determination of the Burning Behavior Using a Radiant Heat Source;

b) Width ≥ 100 mm, $138 \text{ mm} \leq \text{length} < 356$ mm; same material component whose accumulative used length in the same interior part is ≥ 1 m;

c) $20 \text{ mm} \leq \text{width} < 100$ mm, length ≥ 356 mm; same material component whose accumulative used length in the same interior part is ≥ 2 m.

4.2.4 Other instructions

4.2.4.1 Component dimensions shall be measured in accordance with the maximum rectangle covered by the maximum projective plane of the component in any direction.

4.2.4.2 If component dimensions cannot satisfy the requirements in 4.2.3, then, this component is not applicable to this Standard.

4.2.4.3 If component dimensions can satisfy the requirements in 4.2.3, but there are cavities, and the parts without cavities cannot satisfy the requirements of minimum dimensions, then, this component is also not applicable to this Standard.

4.2.4.4 In terms of components manufactured by the same manufacturer, with the same materials, the same process and the same thickness, but are used in different parts, components with the highest technical requirements may be tested to cover components of other parts.

5 Test Methods

5.1 Conditioning

Before tests, samples shall be placed for over 24 h in accordance with the stipulations in GB/T 2918, and under the conditions of standard ambient temperature (23 ± 2) °C, relative humidity (50 ± 5) %.

5.2 Sampling Requirements

Please refer to Appendix A for sampling requirements.

5.3 Horizontal Burning

Conduct the test in accordance with the stipulations in GB 8410.

5.4 Vertical Burning

Conduct the test in accordance with the stipulations in GB/T 32086.

5.5 Oxygen Index

5.5.1 Textile materials shall be tested in accordance with the stipulations in GB/T 5454.

5.5.2 Rubber materials shall be tested in accordance with the stipulations in GB/T

Appendix A

(Normative)

Sampling Requirements for Test Samples

A.1 Preparation of test samples

Avoid cavities, directly cut test samples from components. If the components cannot be cut into sample strips stipulated in this Standard, then, raw materials of the components may be adopted to make sample strips that comply with the stipulations in accordance with the same production process of the components.

If the components are made of multiple materials, they shall be decomposed into single materials or laminated composite materials. In accordance with the requirements of the single materials and laminated composite materials, respectively prepare samples.

The preparation of test samples may take the recommended dimensional requirements in Table A.1 as a reference.

After components are decomposed into single materials and laminated composite materials, in accordance with the technical requirements of the category that the components belong to, determine the test results.

Example: for example, door guard which has the structure: PVC leather clad substrate; after decomposition, PVC leather and substrate shall respectively be tested in accordance with the requirements of Class-1 “interior panels”; the test results shall be determined in accordance with the technical requirements of “interior panels”.

A.2 Requirements of thickness

When components' actual thickness is less than the standard thickness recommended in Table A.1, the thickness of test sample shall be the actual thickness of the components. When components' actual thickness is more than the standard thickness recommended in Table A.1, the mode of cutting may be adopted to make sample strips with the standard thickness. In terms of components, on which, the mode of cutting cannot be adopted, the components may be made into sample strips that comply with the post-cutting status. No matter which mode is adopted, it needs to be indicated in the report.

When the density of smoke is tested, component thickness shall comply with the stipulations in GB/T 8627.

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