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Test Method of Artificial Leather and Synthetic Leather

- Determination of Cold Resistance

人造革合成革试验方法 耐寒性的测定

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Test Method of Artificial Leather and Synthetic Leather

- Determination of Cold Resistance

1 Scope

This Standard specifies the principle, sample preparation, test methods (Method A, Method B and Method C) and test report of the determination of cold resistance of artificial leather, synthetic leather and its manufactured products.

This Standard is applicable to the determination of cold resistance of artificial leather, synthetic leather and its manufactured products.

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 2918-2018 *Plastics - Standard Atmospheres for Conditioning and Testing*

3 Principle

At a lot temperature, use a load of certain energy and speed to impact the compressed sample, so as to determine whether it meets the requirements for use at low temperature.

4 Sample Preparation

4.1 Requirements

The surface of the samples shall be free of defects that would affect material properties and case deviations in the determination. The samples shall be evenly distributed and cut within the breadth range of the whole product. The number of samples: Method A: respectively take three samples in each horizontal and longitudinal direction; Method B and Method C: respectively take three samples.

4.2 Conditioning

In accordance with the requirements of GB/T 2918-2018, at a temperature of $(23 \pm$

2) °C and a relative humidity of (50 ± 10) %, conduct sample conditioning for not less than 24 h.

5 Test Methods

5.1 Method A

5.1.1 Sample size

Sample size: length: (60 ± 1) mm; width: (20 ± 1) mm.

5.1.2 Test equipment

Low-temperature impact test device (see Figure 1) shall satisfy the following requirements:

- a) The mass of hammer: $(2,500 \pm 10)$ g; the impact height of hammer (50 ± 1) mm;
- b) Maintain the bottom surface of the hammer head parallel to the surface of the impact platform;
- c) Parts (including Part 7, Part 8 and Part 9 in Figure 1) of the sample clamping device can be detached;
- d) The constant-temperature precision of the low-temperature bath satisfies ± 1 °C; the low-temperature limit satisfies the operating requirement of -30 °C.

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