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Basic candle

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Basic candle

1 Scope

This standard specifies the terms and definitions, requirements, test methods, inspection rules and signs, packaging, transportation, storage, shelf life of basic candles.

This standard applies to candles, which are processed with paraffin wax and/or vegetable wax as the main raw material.

2 Normative references

The provisions in following documents become the provisions of this Standard through reference in this Standard. For the dated references, the subsequent amendments (excluding corrections) or revisions do not apply to this Standard; however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

GB/T 191 Packaging - Pictorial marking for handling of goods

GB/T 2539 Paraffins - Determination of melting point (cooling curve)

Order No.75 of the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China "Measures for the Supervision and Administration of Quantitative Packaging Commodities"

3 Terms and definitions

The following terms and definitions apply to this standard.

3.1

Basic candle

Candle, which has a regular, symmetrical, simple geometric shape, is processed with paraffin wax and/or vegetable wax as the main raw material, is mainly used for burning and lighting.

5.1.1 Appearance

Take 4 samples. Perform visual inspection.

5.1.2 Odor

Take 4 samples. Sniff it.

5.1.3 Color

Take 4 samples. Perform visual inspection.

5.2 Physical and chemical requirements

5.2.1 Exposed length of wax core

Take 4 samples. Use a vernier caliper to measure the candle. Each candle shall meet the requirements of the standard. Take the maximum value of the test results among the 4 candles, as the final test result.

5.2.2 Eccentricity of wax core

Take 4 samples, use a vernier caliper to measure the distance, between the wax core and the center of the two vertical sections, at one-third and two-thirds of the candle. Each one shall meet the standard requirements. Take the maximum value of the two test results, as the final test result.

5.2.3 Product placement stability

Take 4 samples. Place them on an inclined surface of 10° one by one. Observe whether there is any tipping, at any angle.

5.2.4 Melting point

Determine it in accordance with the provisions of GB/T 2539.

5.2.5 Burning performance

Take 4 samples. Place them at an interval of 200 mm, at a room temperature of 15°C ~ 25°C, without strong air convection. After lighting the candle for 15 min, observe the burning situation, until it is completely extinguished. The flame shall be stable, burning silently, without self-extinguishing, no wax flow (a small amount of wax flow is allowed, but not flowing out of the candle); there is no black smoke, which is invisible to the naked eye.

Note: The test of candle burning performance is carried out according to the following requirements.

- 1) If the mass is less than 40 g, it stops burning at a place which is 10 mm to the

- a) Light stability test box: A closed UV light box with heat dissipation device;
- b) Ultraviolet lamp: Wavelength 365 nm, illuminance $500 \mu\text{W}/\text{cm}^2 \sim 600 \mu\text{W}/\text{cm}^2$.

5.2.10.2 Measurement procedure

Take 4 samples. Place them flat in the light stability measuring box, at a distance of 200 mm right below the UV lamp. Keep them for 48 hours. Take them out, to observe whether there is any discoloration.

5.3 Net content

Take 10 samples for weighing. Compare with the marked net content. It shall meet the requirements of Order No.75 of the General Administration of Quality Supervision, Inspection and Quarantine.

6 Inspection rules

6.1 Inspection classification

Product inspection is divided into exit-factory inspection and type inspection.

6.1.1 Exit-factory inspection

Each batch of products must be inspected by the factory's quality inspection department before leaving the factory. The exit-factory inspection items are appearance, odor, color, eccentricity of wax core, exposed length of wax core, burning performance.

6.1.2 Type inspection

Please refer to all the requirements of this standard for type inspection, which shall be carried out once a year, during normal production. Type inspection shall also be carried out in one of the following situations.

- a) When there are major changes in raw materials and processes or formula adjustments, which may affect product quality;
- b) When production is resumed after a long-term shutdown;
- c) When there is a big difference between the exit-factory inspection result and the last type inspection result;
- d) When the national industry management and the national quality supervision department put forward a request for type inspection.

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