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GA

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GA 666-2018

Retro-reflective sheetings for license plates of motor vehicles

机动车号牌用反光膜

(English Translation)

Issued on: May 2, 2018 **Implemented on: June 1, 2018**

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Foreword

The full technical content of this standard is mandatory.

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GA 666-2006 "reflective film for motor vehicle number plates". Compared with GA 666-2006, except for editorial changes the technical changes are as follows.

--- Revised the "scope" (see Chapter 1, Chapter 1 of the 2006 edition);

--- Increased the term and definition of "tensile strain" (see 3.1);

--- Increased the term and definition of "tensile strength" (see 3.2);

---Modified "Classification and Model" (see Chapter 4, Version 4.1 of 2006);

--- Revised the requirements of the "volume requirements" (see 5.1, 2006 version 4.2.3);

--- Revised the requirements of the "reflective surface" (see 5.2.1, 4.2.1 of the 2006 edition);

---Modified the requirements of "anti-stick paper" (see 5.2.2, 4.2.2 of 2006 edition);

---Modified the requirements of the "identification" (see 5.3, 4.2.4 of the 2006 edition);

--- Modified the requirements of "retroreflection performance" (see 5.4, 4.3 of 2006 edition);

--- Revised the "surface color" requirements (see 5.5.1, 2006 version 4.4.2);

--- Modified the requirements of "retroreflective color" (see 5.5.2, 4.4.1 of the 2006 edition);

---Modified the requirements of "stretching performance" (see 5.6, 2006 edition 4.6.2);

--- Added the requirement of "release properties of release paper" (see 5.8);

--- Revised the requirements of "water resistance" (see 5.9, 2006 edition 4.10);

--- Increased the requirements of "production process adaptability" (see 5.18);

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--- Revised the "test method" (see Chapter 6, Chapter 5 of the 2006 edition);

---Modified the "inspection rules" (see Chapter 7, Chapter 6 of the 2006 edition);

---Modified "packaging, marking and storage" (see Chapter 8, Chapter 7 of the 2006 edition);

--- Added "transition period requirements for standard implementation" (see Chapter 9).

1 Scope

This standard specifies the technical requirements, test methods, inspection rules, etc. of the reflective film for motor vehicles.

This standard applies to the reflective film for motor vehicle number plates.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only the dated version applies to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 251 Textile color fastness test evaluation gray sample card for staining GB/T 2423.1 Environmental testing of electrical and electronic products - Part 2. Test methods Test A. Low temperature GB/T 2423.2 Environmental testing of electrical and electronic products - Part 2. Test methods Test B. High temperature Standard environment for GB/T 2918 plastic sample conditioning and testing GB/T 3681 plastic natural daylight weather aging, solar aging after glass filtration and Fresnel spectroscopy accelerate sunlight aging Exposure test method GB/T 3880.3 General industrial aluminium and aluminium alloy sheets and strips - Part 3. Dimensional deviation GB/T 3978 standard illuminating body and geometry GB/T 3979 method for measuring object color GB/T 7706 letterpress decoration print GB/T 16422.2 Test methods for exposure of plastics - Part 2. Xenon arc lamps GB/T 18833 road traffic reflective film JT/T 687 Reflective Film Release Paper Peelability Tester Public Transport Administration [2017] No. 485 Notice on Doing a Good Promotion and Application of New Energy Vehicle Special Number Plates

3 Terms and definitions

The following terms and definitions as defined in GB/T 18833 apply to this document.

Tensile strain the increment of the original gauge length unit length, expressed as a dimensionless ratio or percentage (%).

[GB/T 1040.1-2006, definition 4.4] 3.2 Tensile strength the maximum tensile stress experienced by the specimen during the tensile test.

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Note: The unit is Newton (N).

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