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Retro-Reflective Devices and Markings for Motor Vehicles 机动车回复反射装置

(English Translation)

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Retro-Reflective Devices and Markings for Motor Vehicles

1 SCOPE

This document specifies the requirements, test methods, criteria for determination of one type, inspection rules and requirements for configuration and installation with respect to the retro-reflective devices and markings for motor vehicles.

This document is applicable to the design, manufacture, testing and installation of the retroreflectors, retro-reflective markings of carriage, rear marking plates and warning triangles installed, pasted or fitted on motor vehicles.

2 NORMATIVE REFERENCES

The following normative documents contain provisions which, through normative reference in this text, constitute essential provision of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendment) applies.

GB/T 2423.1	Environmental testing for electric and electronic products - Part 2: Test methods - Tests A: Cold
GB/T 2423.2	Environmental testing - Part 2: Test methods - Tests B: Dry heat
GB/T 2423.17	Environmental testing - Part 2: Test methods - Test Ka: Salt mist
GB/T 3681.2-2021	Plastics—Methods of exposure to solar radiation—Part 2: Direct weathering and exposure behind window glass
GB/T 3978-2008	Standard illuminants and geometric conditions
GB/T 3979	Methods for the measurement of object color
GB 4785	Prescription for installation of the external lighting and light-signaling devices for motor vehicles and their trailers
GB/T 8427	$\label{lem:color_fastness} \textbf{-Color fastness} - \textbf{Color fastness to artificial light:} \\ \textbf{Xenon arc}$
GB/T 10485	Road vehicles - Lighting and light-signaling devices - Environmental endurance
GB/T 16422.2	Plastics—Methods of exposure to laboratory light sources—Part 2: Xenon-arc lamps
GB 18100 (all parts)	Provisions for installation of lighting and light-signaling devices for motorcycles

3 TERMS AND DEFINITIONS

For the purpose of this document, the following terms and definitions apply.

3.1 retro-reflective devices and markings for motor vehicles

A device that indicates the presence of a motor vehicle to an observer located in the vicinity of the light source by reflecting the light illuminated by other light source

Note 1: It is abbreviated as "retro-reflective device".

Note 2: The retro-reflective devices and markings for motor vehicles include retro-reflector, retro-reflective markings of carriage, rear marking plate for vehicles and their trailers, and warning triangles for motor vehicles.

3.1.1 retro-reflector

A device that consists of one or more retro-reflecting optical units and installed on the vehicle to improve the visibility of vehicle during nighttime

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