

ICS 19.040

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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 14522-2008

Replace GB/T 14522-1993

**Artificial weathering test method for plastics,
coating and rubber materials used for machinery
industrial products—Fluorescent UV lamps**

**机械工业产品用塑料、涂料、橡胶材料人工气候老化
试验方法 荧光紫外灯**

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and Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of
China**

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Foreword

This standard replaces GB/T 14522-1993 *Accelerated weathering test method for plastics, coatings and rubber materials used for machinery industrial products*.

Compared with GB/T 14522-1993, the main changes are as follows:

—Name of this standard shall be changed as “*Artificial weathering test method for plastics, coatings and rubber materials used for machinery industrial products Fluorescent UV lamp*”;

—Delete contents related to Xenon lamp exposure test;

—Increase Chapter 4 “Principle”;

—In Chapter 1 of equipment, specific structure of facilities will not be regulated and requirements of performance are put forward. Increase regulation of relative spectral energy distribution of three kinds of Fluorescent UV lamp UVA-340, UVA-351, UVB-313; increase relevant contents of facilities with irradiance automatic control system; increase another method that provides humidity-spray water;

—In Chapter 1 of sample, requirements of plastics, coatings and rubber materials are put forward;

—Specific regulations of test condition shall not be made;

—Increase Chapter 8 “Procedure”;

—increase Chapter 9 “Accuracy and deviation”;

—Increase normative annex “Ensure methods of relative spectral energy distribution of three kinds of Fluorescent UV lamp” (as shown in appendix A);

—Increase informative annex “CIE publication No.85:1989 table 4 excerpt” (as shown in appendix B);

—Increase informative annex “Typical test example” (as shown in appendix C);

In this standard, appendix A is normative annex; appendix B and C are informative annexes.

This standard was proposed by and shall be under the jurisdiction of The national electrical and electronic products environmental conditions and environmental test standardization technical committee (SAC/TC 8).

This standard is drafted by China National Electric Apparatus Research Institute (CEI).

Main drafter of this standard is Zhang Zhiyong.

The historical version replaced by this Part is as follows:

—GB/T 14522-1993.

Artificial weathering test method for plastics, coatings and rubber materials used for machinery industrial products Fluorescent UV lamp

1 Scope

This standard specifies one of artificial weathering test methods for plastics, coatings and rubber materials used for machinery industrial products- Fluorescent UV lamp exposure test method.

This standard applies to comparison of weather resistance and screening test.

2 Normative reference

Articles in the following documents become articles of this standard by quotation. All subsequent modification list of reference dated (without including contents of corrigendum) or revised edition shall not apply to this standard. However, encourage researches from all parties that have been approved according to this standard that whether these documents shall be used. The latest version of reference undated shall apply to this standard.

GB/T 16422.1 Plastics - Methods of the exposure to laboratory light sources - Part 1: General guidance (GB/T 16422.1-2006,ISO 4892-1:1999,IDT)

GB/T 9271 Paints and varnishes; Standard panels for testing (GB/T 9271-1988, eqv ISO 2808:1974)

GB/T 13452.2 Paints and varnishes-Determination of film thickness (GB/T 13452.2-1992,idt ISO 2808;1974)

GB/T 7762 Rubber, vulcanized or thermoplastic--Resistance to ozone cracking--Static strain test (GB/T 7762-2003, ISO 1413-1;1989, MOD)

GB/T 2941 Rubber - General procedures for preparing and conditioning test pieces for physical test methods (GB/T 2941-2006, ISO 23529:2004, IDT)

3 Terms and definitions

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