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

GB/T 35513.2-2017

**Plastics -- Polycarbonate (PC) moulding and extrusion
materials -- Part 2: Preparation of test specimens and
determination of properties**

塑料 聚碳酸酯(PC)模塑和挤出材料 第2部分：试样制备和性能测试

(English Translation)

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Table of Contents

Foreword

1 Scope

2 Normative references

Foreword

GB/T 35513 "plastic polycarbonate (PC) molding and extrusion material" is divided into two parts.

--- Part 1. Naming system and classification basis;

--- Part 2. Preparation of samples and performance testing.

This section GB/T 35513 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the redrafted law revision using ISO 7391-2:2006 "plastic polycarbonate (PC) molding and extrusion materials 2 Part. Sample preparation and performance testing "(in English).

This part of ISO 7391-2:2006 technical differences and the reasons are as follows.

--- On the normative references, this section made a technical difference with the adjustment to adapt to China's technical conditions, adjust the situation Concentration reflected in the second chapter "Normative references", the specific adjustments are as follows.

- Equivalent to the use of international standards GB/T 1034-2008 instead of ISO 62:1999;
- Replaced IEC 60250:1969 with revision GB/T 1409-2006 of international standard;
- Replace ISO 306:2004 with GB/T 1633-2000 equivalent to international standards;
- Replaced IEC 60296:2003 with GB 2536-2011 modified to adopt international standards;
- Equivalent to the international standard GB/T 2918 instead of ISO 291:2005;
- Equivalent to the use of international standards GB/T 4207-2012 replaced IEC 60112:2003;
- Equivalent to the international standard GB/T 19467.1 instead of ISO 10350-1:1998;
- ISO 7391-1 deleted.

--- Mechanical testing of the state when the time from "4h" to "24h." this section made the following editorial changes.

--- Adjust the order of the table will be ISO 7391-2:2006 Table 1 to Table 3 of this section, ISO 7391-2:2006 Table 2 to

Table 4 of this part, Table 3 of ISO 7391-2:2006 is replaced by Table 1 of this part, Table 4 of ISO 7391-2:2006 is replaced by Part

Table 2

--- Chapter 2 and Chapter 3 ISO 7391-2:2006 merged into Chapter 2 of this section, and in turn modify the other chapter serial number.

This part is proposed by China Petroleum and Chemical Industry Federation.

This part of the National Plastics Standardization Technical Committee Engineering Plastics Sub-Technical Committee (SAC/TC15/SC9) centralized.

This part of the drafting unit. China Blue Star (Group) Co., Ltd., Blue Chenguang Chengdu Testing Technology Co., Ltd., Wuhan Golden Technology Co., Ltd., Guangzhou Poly-Long Engineering Plastics Co., Ltd., Luxi Group Co., Ltd., Mid-Blue Chenguang Chemical Research and Design Institute Co., Ltd.

1 Scope

This section GB/T 35513 specifies the preparation of polycarbonate molding and extrusion materials for the performance of the sample preparation process and test side law. This section specifies the method of treatment of the material being tested as well as the state of the test material before the test and the test sample conditioning requirements.

This section gives the polycarbonate molding and extrusion sample preparation process and conditions and the use of these samples to test the performance of the material Method, but also lists the properties required to characterize polycarbonate molding and extrusion materials and how they are tested.

Performance project is selected from the general test method GB/T 19467.1. Some of the other particulars of polycarbonate molding and extrusion materials are of particular importance or Widely used test methods are also included in this part of GB/T 35513, the characteristic performance can be found in GB/T 35513.1.

In order to obtain comparable and reproducible test results, should be in accordance with the provisions of this part of the sample preparation process and state adjustment method, the test Sample size and test method. Test data using different sample sizes or sample preparation methods may not always agree.

2 Normative references

The following documents for the application of this document is essential. 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 1033.1-2008 Plastics - Determination of density of non-foamed plastics - Part 1. Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2004, IDT)
GB/T 1034-2008 Determination of plastic water absorption (ISO 62:2008, IDT) GB/T 1040.2-2006 Plastics - Determination of tensile properties - Part 2. Test conditions for molding and extrusion of plastics (ISO 527-2:1993, IDT) Plastics - Determination of impact properties of plastic beams - Part 1. Non - instrumented impact test (ISO 179-1).

2000, IDT)

GB/T 1408.1-2006 Insulating material electrical strength test methods Part 1. Test at power frequency (IEC 60243-1:1998, IDT) GB/T 1409-2006 Measurement of electrical insulation materials in the power frequency, audio, high frequency (including the wavelength of rice) Capacitance and dielectric loss Recommended method of consumption factor (IEC 60250:1969, MOD) GB/T 1410-2006 Test methods for volume resistivity and surface resistivity of solid insulating materials (IEC 60093:1980, IDT) Thermoplastics Vicat softening temperature (VST) determination (ISO 306:1994, IDT) GB/T 1633-2000 GB/T 1634.2-2004 Plastics - Determination of load deflection temperature - Part 2. Plastics, hard rubbers and long fiber reinforced composites Materials (ISO 75-2:2003, IDT) GB/T 1843-2008 Determination of impact strength of plastic cantilevered beams (ISO 180:2000, IDT) Plastics - Determination of combustion behavior by oxygen index method - Part 2. Room temperature test (ISO 4589-2:1996, IDT) GB 2536-2011 Unused mineral insulating oils for electrical fluid transformers and switches (IEC 60296-2003, MOD) GB/T 2918 plastic sample conditioning and testing of the standard environment (GB/T 2918-1998, idtISO 291.1997)