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

GB/T 12001.2-2008

Replacing GB/T 12001.2-1989; GB/T 12001.3-1989

**Plastics -- Unplasticized poly (vinyl chloride) (PVC-U) moulding
and extruded materials -- Part 2: Preparation of test specimens
and determination of properties**

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(English Translation)

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Foreword

GB/T 12001 "unplasticized PVC plastic molding and extrusion materials" is divided into two parts.

--- Part 1. Designation system and basis;

--- Part 2. Preparation and properties of the specimen was measured.

This section GB/T 12001 Part 2. This part identical with ISO 1163-2:1995 "Plastics unplasticized PVC (PUC-U) molding and extrusion materials - Part 2. Preparation of test specimens and determination "(in English).

This section is equivalent translation ISO 1163-2:1995.

For ease of use, this section made the following editorial changes.

- a) Remove the ISO 1163-2:1995 Foreword;
- b) "This part of ISO 1163" to "GB/T 12001 this part" or "this part";
- c) For ISO 1163-2:1995 international standard references, there is tantamount to the adoption of a standard as part of this country with reference standard Instead of quasi-international standards, and the rest is not tantamount to the adoption of the standard, in the standard are a direct reference.

This Part replaces GB/T 12001.2-1989 "unplasticized PVC window Moulding Part 2. Quality specifications" the GB/T 12001.2-1989 with. GB/T 12001.3-1989 "performance test methods Part 3 plasticized PVC window Moulding did not increase" 12001.3-1989 integration amendments abolished GB/T 12001.2-1989 requirements.

This section compared with the GB/T 12001.3-1989 The main changes are as follows.

- a) the standard name was changed to "plastic PVC plastic molding and extrusion materials - Part 2 does not increase. Preparation of test specimens and determination of properties";
- b) The mechanical properties to the mechanical properties, and increased tensile creep, tensile notched impact strength, eliminating the Shore hardness;
- c) increasing the electrical properties of relative permittivity, dielectric loss tangent, surface

resistance, dielectric strength, compared to the tracking index;

d) The flame retardancy and thermal properties;

e) canceled the degree of corrosion.

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee of plastic products and plastic resins General Methods Chapter (SAC/TC15/SC4) centralized.

This section is responsible for drafting unit. Sinopec hospital north of the National Chemical Building Materials Testing Center (Materials Testing section).

Participated in the drafting of this section. Country of synthetic resin Quality Supervision and Inspection Center, Sinopec Yanshan Petrochemical resin.

1 Scope

This section GB/T 12001 specifies the unplasticized polyvinyl chloride (PVC-U) molding and preparation of samples and performance testing of the extruded material method. This section, and all properties - Part 1 lists the corresponding methods mentioned in this section shall be measured.

These properties may not be referenced data. Naming required PVC-U thermoplastic material is characterized in this performance standard - Part 1 Given. All properties should be determined by the appropriate method mentioned in this section, shall be the value obtained GB/T 19467.1-2004 be FIG.

Results of the sample and the use of different sample sizes and (or) prepared using different methods to get the results of this phase are not necessarily part of the measurement with. Performance depends on molded plastic molded plastic composition, shape, test methods and anisotropic condition. There are factors that affect the performance of the mold the gate and the molding conditions, such as temperature, pressure and injection speed. Any post-treatment such as annealing or aging can also affect its performance, such as old of or annealing.

Thermal history, stress on the thermal properties, mechanical properties and resistance to environmental stress cracking resistance is large, but may affect the electrical properties of very small, it depends on the electrical properties of the chemical composition of the plastic molding.

In order to obtain reproducible test results, you should do the following points.

--- Use the specified sample size and conditions;

--- Use this section to the prescribed test procedures.

2 Normative references

The following documents contain provisions which, through reference GB/T 12001 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

1033.1-2008 non-plastic foam density measurement GB/T Part 1. Immersion method, liquid pyknometer method and titration method (ISO 1183-1:2004, IDT) GB/T 1034-2008 Plastics Determination of water absorption (ISO 62:1999, IDT) GB /1040.1-2006 Plastics Determination of tensile properties T Part 1. General (ISO 527-1:1993, IDT) GB /1040.2-2006 Plastics Determination of tensile properties T Part 2. Test plastics molding and extrusion conditions (ISO 527-2:1993, IDT) GB /1040.4-2006 Plastics - Part 4 Determination of tensile properties T. isotropic and orthotropic fiber-reinforced complex Composite material test conditions (ISO 527-4:1997, IDT) 1043.1-2008 plastic Charpy impact properties determination GB/T Part 1. Non-instrumented impact test (ISO 179-1:2000, IDT) GB/T 1408.1-2006 electrical insulating materials strength test methods - Part 1. Tests at power frequencies (IEC 60243-1:1998, IDT) GB/T 1410-2006 solid insulating material volume resistivity and surface resistivity test methods (IEC 60093. 1980, IDT) GB/T 1633-2000 thermoplastics Vicat softening temperature (VST) is measured (ISO 306:1994, IDT) GB/T 1634.1-2004 Determination of plastic deflection temperature under load - Part 1. General test method (ISO 75-1:2003, IDT) GB/T 12001.2-2008/ISO 1163-2:1995