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

GB/T 30924.2-2014

**Plastics -- Ethylene-vinyl acetate (EVAC) moulding and
extrusion materials -- Part 2: Preparation of test specimens and
determination of properties**

塑料 乙烯-乙酸乙烯酯(EVAC)模塑和挤出材料 第2部分：试样制备和性能测定
(English Translation)

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Foreword

GB/T 30924 "plastic ethylene - vinyl acetate (EVAC) molding and extrusion materials" is divided into the following two parts.

- Part 1. naming systems and classification basics;

Part 2. Sample preparation and performance determination.

This part is part 2 of GB/T 30924.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the re-drafting method to modify ISO 6513-2.:1995 "Plastic Ethylene-Vinyl Acetate (EVAC) Molding and Extrusion Materials Part 2. Preparation and Performance of Specimens "and its Amendments 1ISO 4613-2.:1995-Amd1..2004.

This section adds an Appendix A to the structure compared to ISO 4613-2.:1995, and gives the reference standard in this section to ISO 4613-2.

1995 reference list of reference standards.

The main technical differences between this section and ISO 4613-2.:1995 and its amendments 1ISO 4613-2.:1995-Amd1..2004 and its causes as follows.

--- on the normative reference documents, this standard has made a technical differences in the adjustment to meet China's technical conditions, adjust the situation the situation is reflected in Chapter 2, "Normative references", as follows.

- GB/T 1033.1 with equivalent international standard and GB/T 1033.2 with international standard GB 4613-2.

1995 cited ISO 1183. 1987;

- ISO 527-4 referenced in ISO 4613-2.:1995 with GB/T 1040.4-2006 equivalent to international standards;

- Replace IEC 250. 1969 with GB/T 1409 instead of ISO 4613-2.:1995 with the revised international standard;

- ISO 1616.3001 instead of ISO 4613-2.:1995 with ISO 1628-3.:1991;
- ISO 4589-2 referenced by GB/T 2406.2-2009 equivalent to ISO 4613-2.:1995 with equivalent international standards;
- Added reference to GB/T 19466.1-2004;
- Added references to ISO 11359-1.:1999;
- Added references to ISO 11359-2.:1999.
- Change the standard test environment "relative humidity $50\% \pm 5\%$ " to "relative humidity $50\% \pm 10\%$ " (see Chapter 5).
- Remove the sample size and size of the load deformation temperature "110 x 10 x 4 side" (see Table 2).
- the relative permittivity, dielectric loss factor, volume resistivity, surface resistivity of the sample type and size " $\geq 80 \times \geq 80 \times 1$ " Modified to " $\geq 60 \times \geq 60 \times 2$ " (see Table 2).
- Change the electrical strength sample type and size " $\geq 80 \times \geq 80 \times 1$ " to " $\geq 60 \times \geq 60 \times 1$ ", " $\geq 80 \times \geq 80 \times 3$ " is " $\geq 60 \times \geq 60 \times 2$ " (see Table 2).
- Change the water absorption sample type and size "50 x 50 x 3 or $\phi 50 \times 3$ " to "60 x 60 x 1" (see Table 2).

This part is proposed by China Petroleum & Chemical Corporation.

This part is headed by the National Plastics Standardization Technical Committee Petrochemical Resin Products Sub-Technical Committee (SAC/TC15/SC1).

This part is responsible for drafting unit. China Petroleum and Chemical Corporation Beijing Yanshan Branch Quality Supervision and Inspection Center.

This part participates in the drafting unit. China Petroleum & Chemical Corporation Beijing Yanshan Branch Resin Application Research Institute, National Petrochemical Organic Raw materials synthetic resin quality inspection center, the Yangtze BASF limited liability company, Beijing Oriental Petrochemical Co., Ltd. organic chemical plant.

1 Scope

This part of GB/T 30924 specifies the preparation and performance determination of ethylene-vinyl acetate (EVAC) molding and extrusion materials.

Law and condition. This part also specifies the pretreatment of the test material and the requirements of the specimen prior to testing.

This section lists the appropriate and necessary properties and test methods for characterizing ethylene-vinyl acetate (EVAC) molding and extrusion materials. This Some of the performance is selected from GB/T 19467.1-2004 Universal Test Method. This section

also specifies the extensive application of molded and extruded materials or other test methods of special significance, as well as the determination of named properties in Part 1.

In order to make the test results reproducible and comparable, the method of sample preparation and state adjustment as specified in this section may be used, as well as the prescribed sample Size and test method. Test data obtained using different conditions or samples using different sizes may not be consistent.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB/T 1033.1-2008 Plastics - Determination of non-foam density - Part 1. Impregnation, liquid pycnometer and titration (ISO 1183-1.:2004, IDT) GB/T 1033.2-2010 Plastics - Determination of non - foam density - Part 2. Density gradient column method (ISO 1183-2. 2004, MOD)

GB/T 1034-2008 Determination of water absorption of plastics (ISO 62.:2008, IDT) GB/T 1040.1-2006 Determination of tensile properties of plastics - Part 1. General (ISO 527-1.:1993, IDT) GB/T 1040.2-2006 Plastics - Determination of tensile properties - Part 2. Test conditions for molded and extruded plastics (ISO 527-2. 1993, IDT)

GB/T 1040.4-2006 Determination of tensile properties of plastics - Part 4. Isotropic and orthotropic fiber reinforced complexes Test conditions for materials (ISO 527-4.:1997, IDT) GB/T 1043.1-2008 Determination of impact properties of plastic simple supports - Part 1. Non - instrumented impact test (ISO 179-1. 2000, IDT)

GB/T 1408.1-2006 Test method for electrical strength of insulating materials - Part 1. Tests under frequency (IEC 60243-1.:1998, IDT) GB/T 1409-2006 Determination of electrical insulation materials in the frequency, audio, high frequency (including the wavelength of rice), the permittivity and dielectric loss Factor recommended method (IEC 60250. 1969, MOD) GB/T 1410-2006 Test method for volume resistivity and surface resistivity of solid insulating materials (IEC 60093. 1980, IDT) GB/T 1632.3-2010 Plastics - Determination of viscosity of polymer dilute solution using capillary viscometers - Part 3. Polyethylene and poly Propylene (ISO 1628-3.:2001, MOD) GB/T 1634.1-2004 Determination of plastic load deformation temperature - Part 1. General test methods (ISO 75-1.:2003, IDT)