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

GB/T 32363.2-2015

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

(English Translation)

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1 Scope

This part of GB/T 32363 specifies the methods of preparation of test specimens and the test methods to be used in determining the properties of polyamide moulding and extrusion materials. Requirements for handling test material and for conditioning both the test material before moulding and the specimens before testing are given.

Procedures and conditions for the preparation of test specimens and procedures for measuring properties of the materials from which these specimens are made are given. Properties and test methods that are suitable and necessary to characterize polyamide moulding and extrusion materials are listed.

The properties have been selected from the general test methods in ISO 10350-1.

Other test methods in wide use for, or of particular significance to, these moulding and extrusion materials are also included in this Part, as are the designatory properties viscosity number and tensile modulus of elasticity given in ISO1874-1.

2 Normative References

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

ISO 62 Plastics - Determination of Water Absorption

ISO 75-2 Plastics - Determination of Temperature of Deflection under Load - Part

2. Plastics and Ebonite

ISO 179-1 Plastics - Determination of Charpy Impact Properties - Part 1.

Non-Instrumented Impact Test

ISO 179-2 Plastics - Determination of Charpy Impact Properties - Part 2.

Instrumented Impact Test

Appendix NA (Informative)

Chinese Documents corresponding to International

Documents in Normative References

GB/T 1033.1-2008 Plastics - Methods for Determining the Density of Non-Cellular

Plastics - Part 1. Immersion Method Liquid Pyknometer Method and Titration Method (ISO 1183-1.2004, IDT)

GB/T 1033.3-2010 Plastics - Methods for Determining the Density of Non-Cellular

Plastics - Part 3. Gas Pyknometer Method (ISO 1183-3.1999, IDT)

GB/T 1034-2008 Plastics - Determination of Water Absorption (ISO 62.2008, IDT)

GB/T 1040.2-2006 Plastics - Determination of Tensile Properties - Part 2. Test

Conditions for Moulding and Extrusion Plastics (ISO 527-2.1993, IDT)

GB/T 1043.1-2008 Plastics - Determination of Charpy Impact Properties - Part 1.

Non-Instrumented Impact Test (ISO 179-1.2000, IDT)

GB/T 1408.1-2006 Electrical Strength of Insulating Materials - Test Methods - Part 1.

Tests at Power Frequencies (IEC 60243-1.1998, IDT)

GB/T 1409-2006 Recommended Methods for the Determination of the Permittivity and Dielectric Dissipation Factor of Electrical Insulating Materials at Power, Audio And

Radio Frequencies Including Meter Wavelength (IEC 60250.1969., MOD)

GB/T 1410-2006 Methods of Test for Volume Resistivity and Surface Resistivity of

Solid Electrical Insulating Materials (IEC 60093.1980, IDT)

GB/T 1634.2-2004 Plastics - Determination of Temperature of Deflection under Load -

Part 2. Plastics, Ebonite and Long-Fibre-Reinforced Composites (ISO 75-2.2003, IDT)

GB/T 2035-2008 Terms and Definitions for Plastics (ISO 472.1999, IDT)

GB/T 4207-2012 Method for the Determination of the Proof and the Comparative

Tracking Indices of Solid Insulating Materials (IEC 60112.2009, IDT)

GB/T 5169.16-2008 Fire Hazard Testing for Electric and Electronic Products - Part 16.

Test Flames - 50W Horizontal and Vertical Flame Test Methods (IEC 60695-11-10.2003, IDT)

GB/T 9345.4-2008 Plastics - Determination of ash - Part 4. Polyamides (OSP 3451-4.1998, IDT)

GB/T 11997-2008 Plastic - Multipurpose Test Specimens (ISO 3167.2002, IDT)

GB/T 12006.1-2009 Plastics - Polyamides - Part 1. Determination of Viscosity Number (ISO 307.2007, IDT)

GB/T 32363.1-2015 Plastics - Polyamide (PA) Moulding and Extrusion Materials -

Part 1. Designation System and Basis for Specification (ISO 1874-1.2010, IDT)

GB/T 17037.1-1997 Injection Moulding of Test Specimens of Thermoplastic Materials

- Part 1. General Principles and Moulding of Multipurpose and Bar Test Specimens (ISO 294-1.1996, IDT)

GB/T 17037.3-2003 Plastics - Injection Moulding of Test Specimens of Thermoplastic Materials - Part 3. Small Plates (ISO 294-3.2002, IDT)

GB/T 17037.4-2003 Plastic - Injection Moulding of Test Specimens of Thermoplastic

Materials - Part 4. Determination of Moulding Shrinkage (ISO 294-4.2001, IDT)

GB/T 19466.3-2004 Plastics - Differential Scanning Calorimetry (DSC) - Part 3.

Determination of Temperature and Enthalpy of Melting and Crystalliation (ISO 11357-3.1999, IDT)

GB/T 33319-2025 | GB/T 33609-2017 | GB/T 31062-2014 | GB/T 32363.2-2026 |