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**CHEMICAL INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

HG/T 4283-2011

Plastic welded test specimens - Bending test method

塑料焊接试样 弯曲检测方法

(English Translation)

Issued on: December 20, 2011

Implemented on: July 1, 2012

**Issued by: Ministry of Industry and Information Technology of the
People's Republic of China**

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1 Scope

This standard specifies the terms and definitions, symbols and descriptions, test principles, test devices, test sample preparation, state adjustment, test methods, test results and test reports by the test method of bending for plastics welded specimen.

This standard is applicable to bending testing for thermoplastic samples in hot air welding, extrusion welding, hot fusion welding, electric fusion welding and other welding procedures.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition (including any amendments) applies.

GB/T 2918-1998 Plastics - Standard atmospheres for conditioning and testing

GB/T 3375 Welding terminology

GB/T 11997 Plastics - Multipurpose test specimens

GB/T 17200 Technical specification for tensile, compression and flexural testing machines for rubber and plastics (constant rate of traverse)

HG/T 4282 Test method of tensile for plastics welded test specimen

JB 4708 Welding procedure qualification for steel pressure vessels

ISO 2602:1980 Statistical interpretation of test results - estimation of the mean - confidence interval

3 Terms and definitions

For the purposes of this document, the terms and definitions given in GB/T 3375, HG/T 4282, JB 4708 and the following apply.

3.1 bending angle

angle change of test sample after extrusion and bending

3.2 ram displacement

displacement of the contact point between the head and the test sample after extrusion and bending

4 Symbols and interpretations

Symbols used in this standard Table 1 and its interpretations are given in Table 1, and its specific meanings are expressed in Figures 1 to 9, Equations (1) to (3), Table 2 and Table 4.