

HG

CHEMICAL INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HG/T 4282-2011

Plastic welded test specimens - Tensile test method

塑料焊接试样 拉伸检测方法

(English Translation)

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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 tensile for plastics welded specimen.

This standard is applicable to tensile testing for thermoplastic samples in hot-gas welding, extrusion welding, hot fusion welding, electrofusion 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 2035 Terms and definitions for plastics

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

GB/T 3375 Welding terminology

GB/T 8170 Rules of rounding off for numerical values & expression and judgment of limiting values

GB/T 11997 Plastic - multipurpose test specimens

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

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 2035 and GB/T 3375 and the following apply.

3.1 welding beads

plastic melt overflowing from the edge of weld in welding

3.2 test sample

samples for welding procedure qualification test, made according to the requirements of technical standards; a local sample taken from the test piece, including base metal and welded joint

Note: Test samples can be called test shims (such as dumbbell-shaped test shim for tensile test) depending on different shapes of test sample, and test pipes (such as welding pipes for full cross-section tensile).