ISO 8513:2000 Plastics piping systems — Glass-reinforced thermosetting plastics (GRP) pipes — Determination of longitudinal tensile properties

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Abbreviation
ISO 8513:2000
Valid from
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Standards New Zealand
Author
International Organization for Standardization
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ISO Standard
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PDF

Cited By
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Description

This International Standard specifies three test methods for determining the longitudinal tensile properties of pipes of glass-reinforced thermosetting plastics (GRP).

Scope

This International Standard specifies three test methods for determining the longitudinal tensile properties of pipes of glass-reinforced thermosetting plastics (GRP).

The properties which can be determined are:

- the longitudinal tensile strength
- the percentage ultimate elongation
- the longitudinal modulus of elasticity.

Method A uses for the test piece(s) a longitudinal strip cut from a pipe.

- Method A is applicable to pipes with a nominal size of DN 50 or greater with circumferentially wound filaments, with or without chopped glass and/or woven rovings and/or fillers, and to centrifugally cast pipes. It is applicable to those pipes with helically wound filaments with a nominal size of DN 200 or greater.

Method B uses a specified length of the full cross-section of the pipe.

- Method B is applicable to all types of GRP pipe. It is usually used for pipes with a nominal size up to and including DN 150.

Method C uses a notched plate cut from a pipe wall section.

- Method C is primarily intended for use for helically wound pipes with a winding angle other than approximately . This method may also be used for other types of pipe.

Results from one method are not necessarily equal to the results derived from any of the alternative methods. However, all methods have equal validity.

This resource is cited by:

ISO 8513:2000 Plastics piping systems — Glass-reinforced thermosetting plastics (GRP) pipes — Determination of longitudinal tensile properties

This document is CITED BY:

- AS 3571.1-2009

ISO 8513:2000 is cited by AS 3571.1-2009 Plastics piping systems - Glass-reinforced thermoplastics (GRP) systems based on unsaturated polyester (UP) resin. Part 1: Pressure and non-pressure drainage and sewerage (ISO 10467:2004 MOD)

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