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**Carbon fiber reinforced plastics —
Testing methods for bearing strength —
Part 2: Orthotropic and quasi-isotropic
long fiber laminates**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law.

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Carbon fiber reinforced plastics — Testing methods for bearing strength — Part 2 : Orthotropic and quasi-isotropic long fiber laminates

1 Scope

This Japanese Industrial Standard specifies the obtaining method for the bearing strength of laminated sheet (orthotropic or quasi-isotropic long fibre laminates) composed of unidirectional reinforced layer or woven fabric reinforced layer among carbon fiber reinforced plastics.

Warning : Persons using this Standard should be familiar with normal laboratory practice. This Standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 4805 *High carbon chromium bearing steels*

JIS K 7010 *Vocabulary for fibre reinforced plastic*

JIS K 7016-1 *Fiber-reinforced plastics — Methods of producing test plates — Part 1 : General conditions*

JIS K 7072 *Preparation of carbon fibre reinforced plastic panels for test purpose*

JIS K 7100 *Plastics — Standard atmospheres for conditioning and testing*

JIS K 7144 *Plastics — Preparation of test specimens by machining*

JIS Z 8401 *Guide to the rounding of numbers*

3 Terms and definitions

For the purposes of this Standard, the terms and definitions given in JIS K 7010, and the following terms and definitions apply.

3.1 hole diameter d

a diameter of hole for the pin which loads the tensile force to the bar test specimen

3.2 pin diameter D

a diameter of steel pin (or bolt)

3.3 bearing stress σ