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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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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.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public or utility model right. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public or the utility model right.

Carbon fiber reinforced plastics—Testing methods for in-plane shear properties—Part 2: Double V-notch shear method

1 Scope

This Japanese Industrial Standard specifies the obtaining method of in-plane shear strength, in-plane shear fracture strain and in-plane shear elasticity modulus of the carbon fibre reinforced plastics according to the in-plane shear test (Iosipescu test) by using the double V-notched test piece.

This Standard is applicable to the laminated sheet (orthotropic long fiber laminate, quasi-isotropic long fiber laminate, etc.) composed of unidirectional reinforced material (UD), unidirectional reinforced layer or woven fabric reinforced layer.

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 B 7184 *Profile projectors*

JIS B 7502 *Micrometer callipers*

JIS B 7507 *Vernier, dial and digital callipers*

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 dummy test piece

a dummy used for positioning of which the dimensions (width and length) are the same as those of the test piece