

JIS

JAPANESE INDUSTRIAL STANDARD

**Testing methods for
compressive properties of
carbon fibre reinforced plastics**

JIS K 7076—1991

Translated and Published

by

Japanese Standards Association

**In the event of any doubt arising,
the original Standard in Japanese is to be final authority.**

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Testing methods for compressive
properties of carbon fibre
reinforced plastics

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1. Scope

This Japanese Industrial Standard specifies the methods for testing the compressive properties of carbon fibre reinforced plastics.

Remarks 1. This applies to the determination of the compressive properties of anisotropic resin-matrix composite reinforced with carbon fibre, such as unidirectional laminates, 0°/90° balanced crossply laminates including woven fabrics.

2. Standards cited in this Standard are shown in the following.

JIS B 7502 Micrometer Callipers for External Measurement

JIS B 7507 Vernier Callipers

JIS K 6900 Glossary of Terms Used in Plastic Industry

JIS K 7072 Preparation of Carbon Fibre Reinforced Plastic Panels for Test Purpose

JIS K 7100 Standard Atmospheres for Conditioning and Testing of Plastics

JIS Z 8401 Rules for Rounding off of Numerical Values

JIS Z 9051 Interval Estimation of the Population Mean (Standard Deviation Unknown)

3. The units and numerical values given in { } in this Standard are based on the conventional unit system and are appended informative reference.

2. Definitions

For the main terms used in this Standard the definitions in JIS K 6900 apply, and the rest of the terms shall be as follows.

- (1) in-plane compression The compression in which forcing direction is paralleled to laminated plane.
- (2) compressive stress Value of compressive force, carried by the test specimen at any particular moment, divided by the initial cross-sectional area of the test specimen within the gauge length.
- (3) compressive strength The maximum compressive stress sustained by the test specimen during a compression test.