

JIS

JAPANESE INDUSTRIAL STANDARD

General Rules for Testing Methods of Glass Fiber Reinforced Plastics

JIS K 7051—1987

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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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General Rules for Testing Methods of
Glass Fiber Reinforced Plastics

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1. Scope

This Japanese Industrial Standard specifies the test items, testing methods, general items, general conditions of test, and expression of test results common to glass fiber reinforced plastics, hereinafter referred to as the "GFRP", and moulding materials thereof.

2. Definitions

The meanings of principal terms used in this Standard are in accordance with JIS K 6900 and for others, as follows:

- (1) glass fiber reinforced plastics (GFRP) A composite material moulded by using glass fibers utilizing plastics as the matrix in order to improve the mechanical and functional properties thereof and others.
- (2) moulding material A material used for moulding GFRP, i.e. the intermediate material of GFRP such as prepreg.
- (3) glass fiber content The ratio of the mass (or volume) of glass fibers to the total mass (or total volume) of GFRP expressed by a percentage.
- (4) void content The void content indicates the ratio of the void existing inside GFRP and is expressed by volumetric percentage.
- (5) edgewise compression The compression in the case where the GFRP laminated layer surface becomes parallel to the direction of compressive load.
- (6) apparent interlaminar shear The directional shear by which the layers of a GFRP laminated plate are slid parallel to each other.
- (7) transverse shear The shear applied in the direction perpendicular to a GFRP laminated plane.
- (8) in plane shear The shear in the case where the plane acted by shear stress always intersects a laminated plane at right angles.
- (9) Barcol hardness The indentation hardness indicated by a Barcol impressor.

Applicable Standards and Reference Standards: See Page 4.



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