

JIS

JAPANESE INDUSTRIAL STANDARD

**Glass Fiber Reinforced Plastics
for Structural Use**

JIS K 7011—1989

Translated and Published

by

Japanese Standards Association



Documents
Document Sharing Hub

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

JAPANESE INDUSTRIAL STANDARD

J I S

Glass Fiber Reinforced Plastics
for Structural Use

K 7011-1989

1. Scope

This Japanese Industrial Standard specifies glass fiber reinforced plastics, hereinafter referred to as the "GFRP" to be used as material for structural use.

2. Definitions

For the purposes of this Standard main definitions are in accordance with JIS K 6900, and for others following definitions apply.

- (1) limit value of tensile strength The value of tensile strength to be foundation of division of GFRP, which is the average value of tensile strength subtracted by the value of three times the standard deviation which is obtained from the measured tensile strength.
- (2) in-plane direction The direction of arrangement of glass fibers in a plane perpendicular to plate thickness of GFRP.
- (3) preform The preliminarily formed matter of shape near the finally formed product by cutting glass fibers to a length of about 50 mm and by using resin system binder.
- (4) sheet molding compound The molding material of sheet state which is made generally by cutting glass fibers to 10 to 50 mm, then by impregnating the resin compounded to the dispersed strand with hardener, filler, thickner, etc. and after increasing the viscosity of resin, by making stable state at ordinary temperature.

Applicable Standards:

JIS K 6900-Glossary of Terms Used in Plastic Industry

JIS K 7052-Measuring Method for Fiber Content of Glass Fiber Reinforced Plastics

JIS K 7053-Measuring Method for Void Content of Glass Fiber Reinforced Plastics

JIS K 7054-Testing Method for Tensile Properties of Glass Fiber Reinforced Plastics

JIS K 7060-Testing Method for Barcol Hardness of Glass Fiber Reinforced Plastics

JIS Z 8401-Rules for Rounding off of Numerical Values