

Epoflex is manufactured from high-grade prepreg materials. Prepregs consist of high-grade fibre nettings that are waterproofed by using resins. The type of fibre essentially determines the strength durability, the E-module and other important fibre compound product properties. Those most in use are glass, amid, carbon and graphite fibres in conjunction with epoxy, polyester and phenol resins.

Fibre compound materials possess customised properties. CFK and GFK prepreg (waterproofed fibre materials) are advantageously used for the manufacture of these products. In them the strengthening fibres are precisely oriented and combined economically with the resin matrix. Prepregs are manufactured in state-of-the-art casting resin systems consisting of strengthening fibres and resins. Casting resins have fewer volatile components and yield higher compound material strength durability.

Epoflex is primarily used as a semi-finished product for the manufacture of high-strength components (e.g. partition wall systems, barriers). Epoflex stands out as compound materials due to its high strength durability and rigidity. In the process tensile stresses and compressive stresses are absorbed by the fibres, propulsive stresses by the matrix.

The substantially lower weight, e.g. in relation to steel, is a further advantage of this compound material. Furthermore, Epoflex demonstrates a high chemical resistance and is corrosion-free. Epoflex further stands out due to its very good thermal and electric insulation behaviour.

Technical data:

Bulk density	1700 kg / m ³ ± 10 %
Flexural strength	250 N / mm ²
Breaking resistance	6000 N
Elasticity modulus	9500 N / mm ²
Building material classification	B2

Tolerances:

Thickness	± 0.8 mm
Blistering	± 20 mm
Recesses	± 1.0 mm
Length / width	± 2.0 mm pro m
Flatness	± 5.0 mm pro m
Angular accuracy	± 2.0 mm pro m

Dimensions:

The material is supplied in the form of boards with the following standard dimensions:

Length	3600 mm
Width	1300 mm
Thickness	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 mm

Cut outs from these as well as from other thicknesses are available on request.

Processing:

Epoflex can be treated and processed by using common store bought wood processing machines. The use of diamond-studded tools is recommended. For this also please consider our notes for processing.

Storage and transport:

Epoflex should be stored lying completely flat. **Epoflex** is not subject to the hazard ordinance or other storage and transport regulations.

Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2014. Please request the latest version after Jan. 01, 2015.

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