

PRODUCTS IN ACTION

V52 Rotor Blades from Vestas



Vestas V52 850 kW

Vestas is one of the leading rotor blade producers in the world, their rotor blades are part sandwich and part single skin constructions. Sandwich technology is used to optimise stiffness and strength with regards to weight.

The Vestas rotor blades are produced using a rather sophisticated method with epoxy/glass fibre prepregs together with Divinycell HP 80 material in a female mould. The laminates are cured at elevated temperature and pressure. The use of a prepreg system guarantees high and even quality laminates, and together with a Divinycell core material a light, strong and stiff wing construction is achieved.

DIAB developed a new core quality to be used together with epoxy prepregs, the Divinycell HP grade maintain its high mechanical properties and has high dimensional stability at elevated temperatures. The high modulus of the Divinycell HP-grade helps to prevent local buckling failure of the laminates.

Core material:

Divinycell® HP-grade, delivered in kits

Laminates:

Multiaxial glass / Epoxy

Manufacturing method:

Prepregs in female mould under elevated temperature and pressure

Manufacturer:

Vestas

Design:

Vestas

