

Glass-reinforced plastic for fairing bodywork

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Glass-reinforced plastic (VTR) is a material composite, formed from plastic **resin** and glass fiber, generally made up of poliestereo to vinilestere, termo hardening. **The glass-reinforced plastic** is the main base, from which then the **fairing bodywork** are produced **fairing bodywork** for **moto** and for **boats**.

E' possible to produce I composed to you is left over to you, with greater mechanical resistance, using carbon fiber or



kevlar. Beginning from the years the sixty **glass-reinforced plastic** has had many applications for the construction of objects exposed to the atmospheric agents, in particular boats, thanks above all to the dowries of extreme lightness and resistance to the corrosion in basic atmospheres like the marine water.

For similar reasons, the **glass-reinforced plastic** has had many applications in the building is industrial, is civil, in particular as a result of the studies on the effects of the respiration of powders of the Eternit, a material previously taken advantage of wide in the industrial covers.

Thanks to an other property, which the insufficient conductivity electrical worker, the **glass-reinforced plastic** often is used for the construction of covers of electrotechnical equipment. What he interests we is however the functionality like material base for the construction and the completion of one **careens** - than then they will go to cover moto, boats in general terms, tables from serf, tanks and who more puts some - that has the **glass-reinforced plastic**. **The glass-reinforced plastic**, used for before the time in years 50, obtained endured a remarkable consent. Composite was the first plastic material, stampabile to cold, without pressure and that, adequately reinforced, it improved the characteristics of mechanical resistance remarkably.

Previously, in years 40, the polyester, initially reinforced with asbestos fiber, had like first applications the construction of additional tanks for airplane. In times succeeded to you the asbestos fiber was replaced from spun **glass**, and the remarkable one happening collected from the new materials spurred the companies manufacturers to prepare various



types of **resin** and fibers of I reinforce, concurring remarkable technological progresses.

I use of the **glass-reinforced plastic** in the construction of boats, passed from the floating small from diporto to the boats from job and cruise, also of remarkable dimensions, it has contributed to diffuse the acquaintance of the materials, and has concurring to study the behavior of I composed to you in the time and in heavy conditions of I use and sollicitation.



The glass-reinforced plastic in the auto bodies monoblock.

Of continuation we describe the materials uses you in the production:

Gelcoat: It constitutes the part in sight of the manufatti ones. It comes applied by means of manual paint job to double layer over the fairing bodywork in glass-reinforced plastic. It confers to the structure an optimal resistance to it hits, a good thermal resistance, protegge from the atmospheric agents and the ultraviolet beams and the attack of substances chemistries, beyond to giving to the structure a continuous surface and smooths down.

Resin: It has the true and "just adhesive" function of on the **fairing bodywork**, is the material that determines, with the polymerization, the permanent shape of the auto body. It has an elevated resistance to the breaking strength and traction.

Fairing bodywork

Fairing bodywork
and moto

Fairing bodywork
and boats

Moto and motors

History moto

Glass-reinforced