

Pay special attention to the ageing of your sails – dacron and mylar – Close observation compulsory

Vandalism? No! UV Rays only!



An endless set of sails does not exist!

Rajhamsa is one of the last companies selling three axis ultralight with Dacron or mylar sails with Rand Kar distributor in France.

But there are still a lot of types of aircrafts with such this construction (aluminium tubes and Dacron sails) like Skyranger, coyote, weedhopper, and especially power handglider

Regarding the Xair range, the fabric can be made in Dacron or Mylar.

In the flight and repair manuals, it is notified that it is imperative that you check the state of the sails every 300 hours or every year and you make your sails being controlled by a professional by 900 hours or 5 years.

These are recommendations in a non aggressive environment (medium sun – 2 to 5 UV factor). There is a difference of several points between Brittany and the South East of France or in the mountains (1 point / 1000m)

The sails age more quickly in sunny regions or areas on the heights.
In that case, it is essential to pay a close attention to the sails.

It is obvious that the ageing of the sails due to the sun depends on the flying hours as well as the time the aircraft is exposed to the sun on the ground.
If your aircraft is outside during 6 months without any protection, the sails will have to be changed, even if you didn't fly a lot.

UV rays come from the sun during the day but also from the moon, during the night.

The sails are made of 2 components: the cloth and the thread.

A new Dacron sail of 175 g will stand a pressure of 5kg/mm².

If, when controlling the sails, the resistance is 2kg/mm² or less than 2kg, the change of the sails must be planned. And from 1.5kg/mm², the sails must be changed because it can tear when flying.



The thread used to assemble the cloth has a resistance of 5kg when it is new. If the thread doesn't resist under 1.5kg, changing the sails is essential.



The 2 components age almost at the same time.

Mylar sails are smoother and more efficient during the flight but the thread used for Mylar fabric is the same as for Dacron.

You can control the mylar sails only by pressing the cloth with the finger. If you hear any light cracks, it is important to check the wear of the cloth and the thread with a special tool.

The best solution for your sails to last longer, it is the Dacron cloth covered with a varnish at the beginning so that the thread and the cloth are protected.

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We are at your disposal if you want to make a test of your sails.