

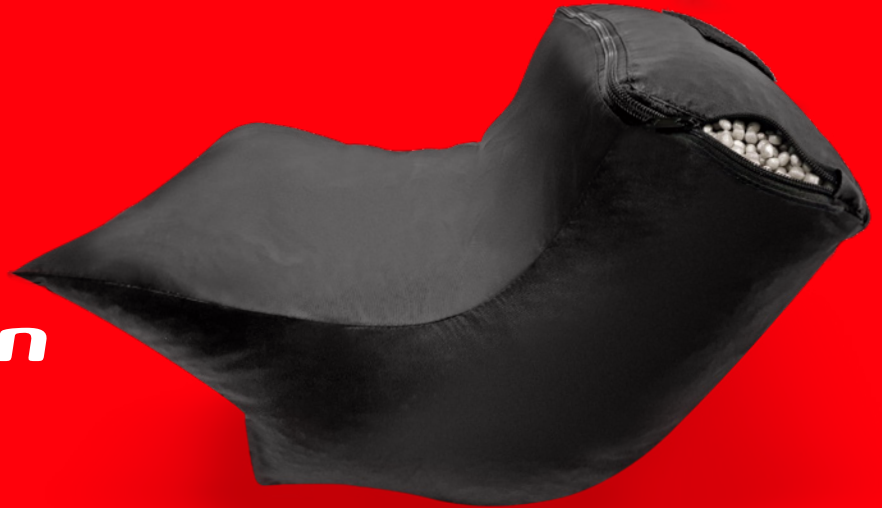


Aerobean

PROTECTION RE-IMAGINED

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INTRODUCING THE AEROBEAN PROTECTOR

Until today, there have been two main protector types used in paragliding harnesses: air-filled airbags and foam protectors. And even though there have been some slight improvements over time, the basic design has not evolved.

In recent years, significant innovations have been created in the sports industry when it comes to body protection like helmets and body armour, driven by research into technologies and materials.

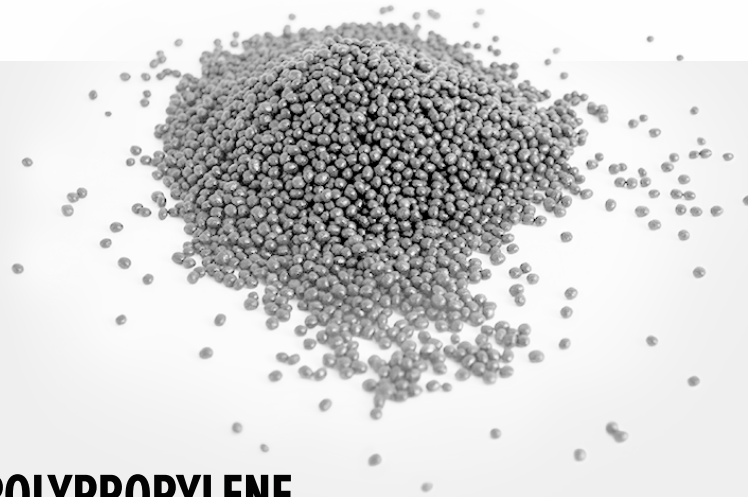
One example is the Neo Koroyd back protector used in GIN's high performance line of harnesses, which offers significantly improved protection in a thinner, more rigid profile.

Gin Seok Song continued to search for a better design of airbag for more traditional harnesses such as those used in schools and by leisure pilots. Such a design would offer superior protection, lighter weight and increased durability.

Two years ago Gin came across the **expanded polypropylene (EPP)** and so the story of the Aerobean protector* started.

* Patent pending





EXPANDED POLYPROPYLENE

EPP is a highly versatile foam that provides a unique range of properties, including outstanding energy absorption and multiple impact resistance. It regains its shape following an impact and retains most of its protective quality. One of the key points is that it has an exceptionally high strength to weight ratio. For that reason, EPP is used in helmets designed to help protect users from multiple impacts, as well as in the automobile industry.

ALMOST AS LIGHT AS AIR

Thanks to the unique structure of the EPP “beans”, the Aerobean protector is the lightest non-airbag protector yet. The Aerobean protector in the Gingo 4 weighs just 200g, a huge weight saving of 78% over its predecessor.

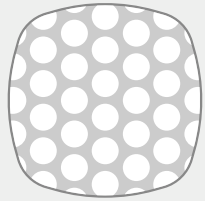




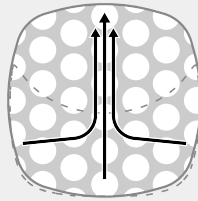
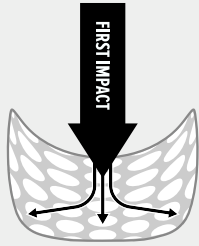
IMPACT ABSORPTION

Besides its multiple impact resistance, the EPP “beans” interact with each other in the case of an impact. In a crash with on a pointed rock, a traditional foam protector will fail because the foam is compressed only on a small part. On the other hand, the EPT grains distribute the concentrated load throughout a larger volume in the Aerobean protector, making it much more effective.

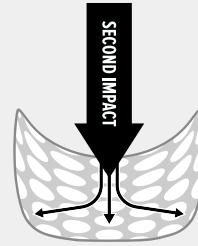
Aerobean



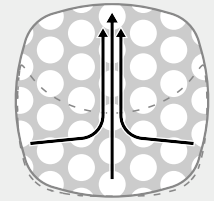
BEFORE IMPACT



AFTER
FIRST IMPACT
(REBOUND)



DURING
SECOND IMPACT

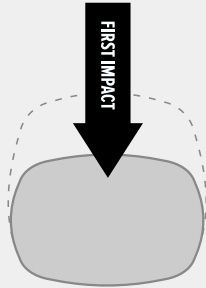


AFTER
SECOND IMPACT
(REBOUND)

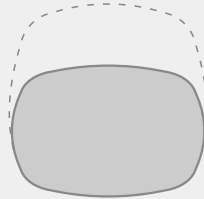
TRADITIONAL PROTECTORS



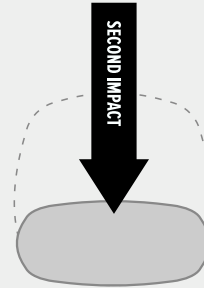
BEFORE IMPACT



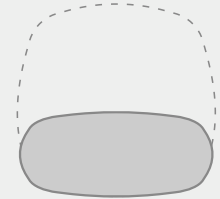
DURING
FIRST IMPACT



AFTER
FIRST IMPACT



DURING
SECOND IMPACT



AFTER
SECOND IMPACT



DETAILS

- Super lightweight
- Outstanding energy absorption
- Resistance to multiple impacts make it ideal for schooling
- Maximum protection during all phases of ground handling and flight
- Robust and low maintenance
- Recycable (polypropylene)



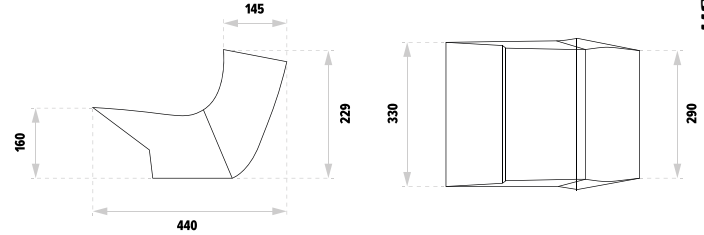
GINGO 4

The 4th generation of our Gingo school and leisure harness is the first harness to be equipped with the Aerobean protector.

Test number	Gingo 4	Gingo 3
Protector weight	200 g	959,5 g
Protector thickness	160 mm	170 mm

TECHNICAL INFORMATION

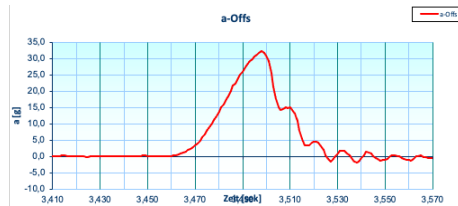
Weight (g)	Protector thickness (mm)	Protector width (mm)
200	160	330



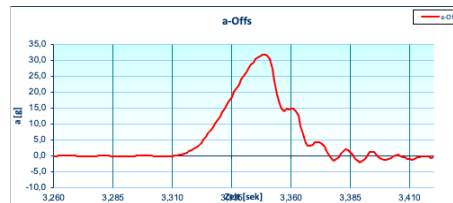
TEST RESULTS

Test number	Maximum acceleration (G)	Limit value (G)
1	32,52	50
2	32,21	50

FIRST TEST



SECOND TEST





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