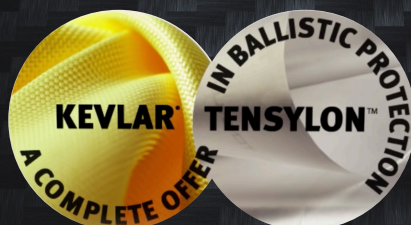
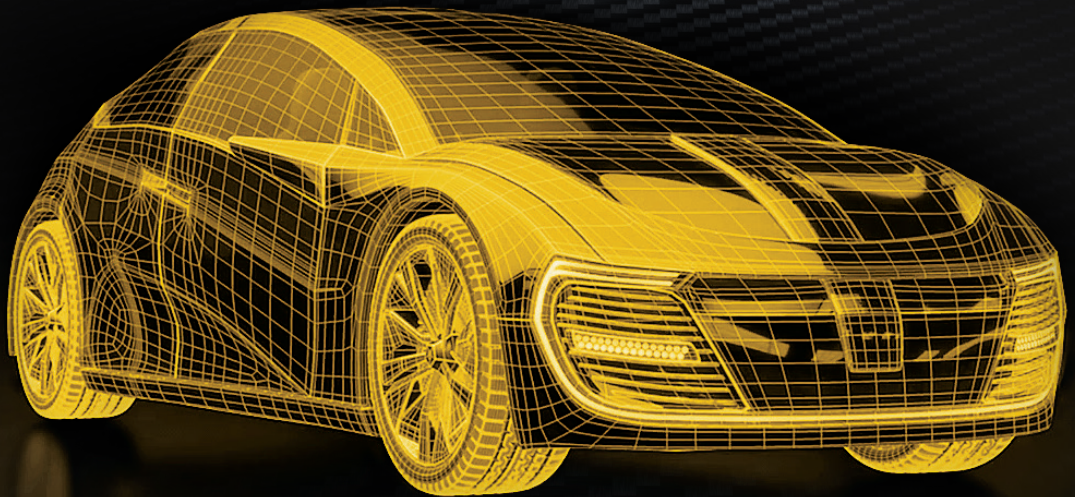




YELLOWGARD

— PAINÉIS BALÍSTICOS —

**FUTURE TECHNOLOGY
AT YOUR REACH NOW.**



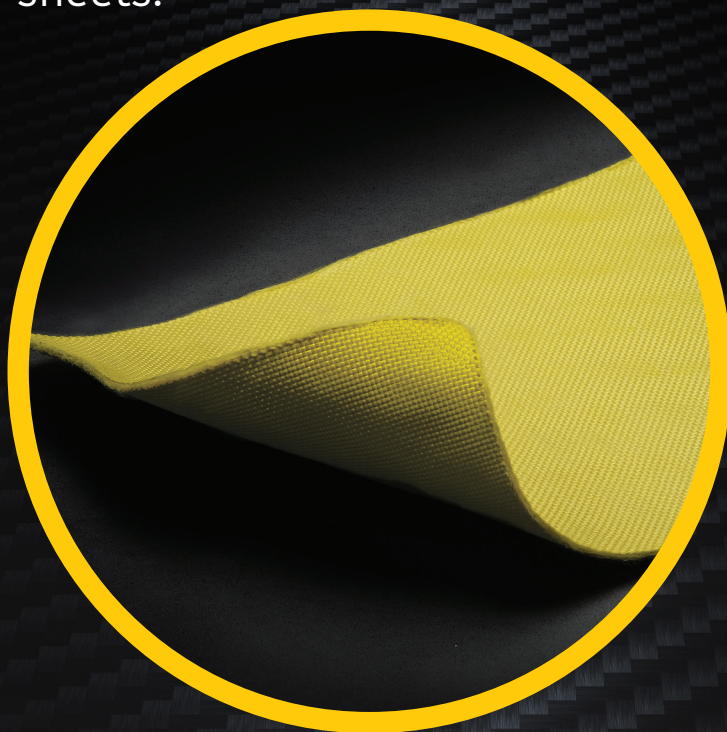
PRODUCTS

All YellowGard products are manufactured in autoclaves through a computer-controlled process, which enables the production of flexible, high-performance panels. These processes exceed the requirements of the ABNT NBR 15000 standard for ballistic levels I, II and III-A.

YG – CLASSIC

YELLOW DOUBLE-SIDED

Material produced in 4, 6, 7, 8, 9 and 11 layers of DuPont® Kevlar fabric (see table for ballistic level), interspersed with thermoplastic film exclusively developed to promote adhesion of Kevlar sheets.



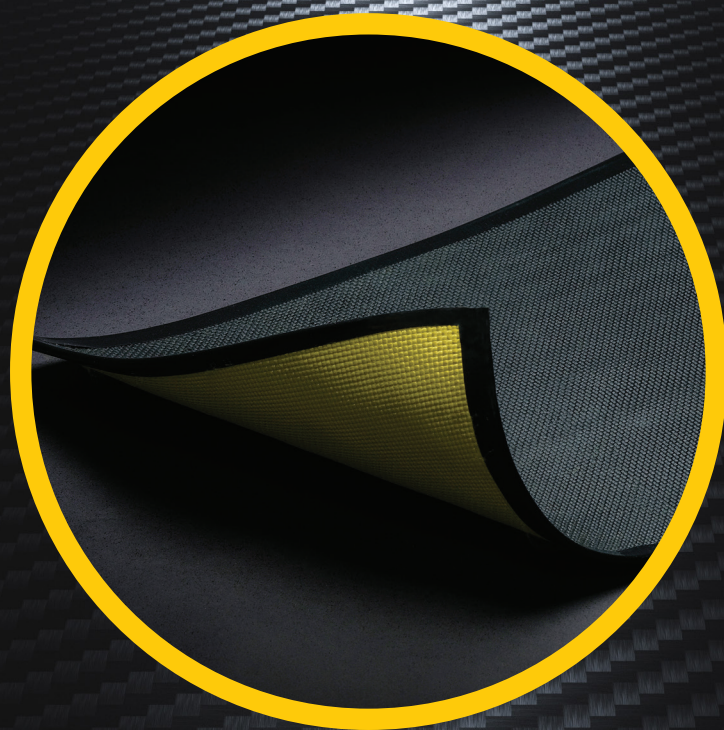
YELLOWGARD
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PRODUCTS

YG – ELITE

BLACK SINGLE-SIDED (Neoprene®)

Material produced in 4, 6, 7, 8, 9 and 11 layers of DuPont® Kevlar fabric (see table for ballistic level), interspersed with thermoplastic film exclusively developed to promote adhesion of Kevlar sheets.



PRODUCTS

YG – ELITE PLUS

BLACK DOUBLE-SIDED (Neoprene®)

Material produced in 4, 6, 7, 8, 9 and 11 layers of DuPont® Kevlar fabric (see table for ballistic level), interspersed with thermoplastic film exclusively developed to promote adhesion of Kevlar sheets.



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PRODUCTS

YG – POLYGARD

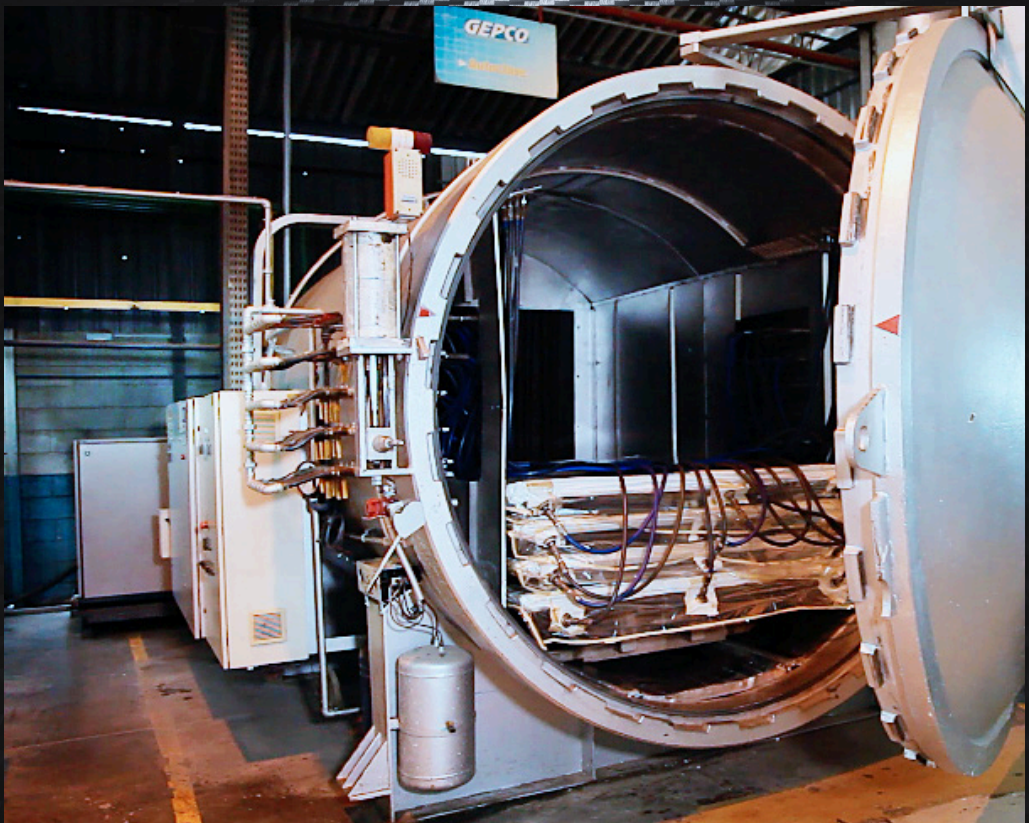
Material produced with 35 layers, 34 of Tensylon* and one of Kevlar (see table for ballistic level) interspersed with thermoplastic film exclusively developed to promote adhesion of the blades.

* DuPont™ Tensylon™ is a rigid ultra-high molecular weight high-performance polyethylene (UHMWPE) material that offers many advantages over other high-performance materials. In vehicles, it replaces the steel in the A, B and C pillars, as well as door bars and door handles. Tensylon™ is up to 80% lighter than metal. It is suitable for threat levels II, III, IV and higher.



MANUFACTURING PROCESS

YELLOWGARD relies on state-of-the-art equipment to manufacture and deliver innovative and high-tech products. The entire blanket production process is performed by an autoclave with electronic vacuum system, with strict quality control ensured by periodic testing in our ballistic lab and also in accredited and audited labs in Brazil and abroad.



MANUFACTURING PROCESS

The fabric used in our blankets is manufactured by DuPont®, a global leader in aramid production and creator of the technology itself. The Kevlar brand is present all over the world and is a benchmark in ballistic safety and high performance.



MANUFACTURING PROCESS

BALLISTICS AT THE SERVICE OF SAFETY

Everything YELLOWGARD produces is rigorously tested in its own ballistic testing lab. This includes every incoming batch of raw material and every batch of manufactured products. Our products largely exceed the requirements of the ABNT NBR 15000:2020 standard, with V50 tests greater than three standard deviations above the upper limit of the standard, which means maximum safety is our ultimate goal.



MANUFACTURING PROCESS

CERTIFICATIONS

YELLOWGARD holds certifications that allow it to market controlled products, like Título de Registro (TR) and the Army Experimental Report (RETEX). The company also has an ISO 9001:2015 approved quality system, in addition to certifications by HPWhite and NTS Chesapeake Testing, the most reputable ballistic labs in the United States.



YELLOWGARD PRODUCT LINE WITH CERTIFICATION AND RETEX				
PRODUCT	BALLISTIC LEVEL (NBR 15.000)	NUMBER OF LAYERS	THICKNESS (mm)	WEIGHT (Kg/m ²)
YG 100 01	I	4	1,9	2,0
YG 100 00	I	6	2,9	3,0
YG 700	II	7	3,4	3,5
YG 300	IIIA	8	3,8	4,0
YG 400	IIIA	9	4,3	4,5
YG 500	IIIA	11	5,3	5,5
YG T 3500	IIIA	35	4,5	4,20
YG SA 11*	IIIA	11	7,0	4,90

The RETEX were conducted with 0.6 mm steel plates lined with the material, according to the regulations in force at Secretaria de Tecnologia - Campo de Provas da Marambaia. The measurements above have a tolerance of approximately 5% plus or minus.

* YG SA 11 is stand-alone.

SERVICES

CUT KITS

The blankets can be provided in cut kits. In such cases, each customer's project is used to determine the molds that will be digitized and electronically fit together to maximize usability. After approval, they are cut by a CNC machine. Cut kits have many advantages, including savings of up to 12% compared to manual cutting, with much lower levels of waste. Customers receive the material ready for installation.



SERVICES

THERMOFORMING

The parts can be thermoformed (three dimensions) to take on the internal shape of the vehicle and enable 100% compatible dimensions. This process is particularly suitable for more complex parts, like wheel arches and hoods, without the need to adjust the material at the time of installation. For the process to come about properly, building specific tools for the interior of the vehicle is required.



**IN ADDITION TO THESE SERVICES, WE PROVIDE
BLANKETS IN PLATE FORMAT.**

TECHNOLOGY

PRODUCT TRACEABILITY

YELLOWGARD'S traceability system encompasses everything from the production of the yarn and the weaving company in Brazil until it becomes a panel at the plant. All guidelines of ordinance N. 94 – COLOG of August 16, 2019 and subsequent norms are fully met regarding the traceability of our products to enable a seamless chain between orders, invoices, quality certificates and the products installed in vehicles. This identification is done through QR codes so anyone with a smartphone can track the product from anywhere in the world.





YELLOWGARD

PAINÉIS BALÍSTICOS

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