



COMPOSITES

FIBER-REINFORCED THERMOPLASTIC



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ABOUT

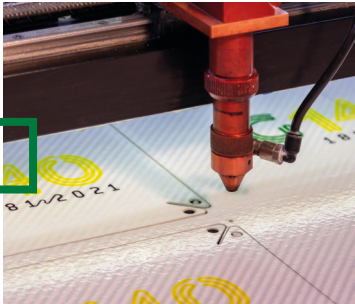
Gavazzi thermoplastic composites combine strong glass fibers, polypropilene, UHMWPE and other reinforcements with different thermoplastics resins.

Customized composite solutions offer high mechanical and physical performance, ranging from prepregs to laminates.

R&D

Thanks to its technical, manufacturing and marketing know-how, Gavazzi develops and offers innovative and **highly qualified products, as well as customized variants for each item.** Ongoing research is carried to discover cutting-edge solutions, aimed at enhancing the product final performance. All projects are carried in compliance with the latest regulations in terms of environmental safety.

LASER CUT



MECHANICAL CHARACTERIZATION: BENDING TEST



MECHANICAL CHARACTERIZATION: TENSILE TEST



NATURAL FIBER TEXTILE AND PREPREG



DISTINCTIVE ELEMENTS

	SRPP	UHMWPE	GFPP	GFPA	GFPEG	GFPEs
Lightness	✓	✓	✗	✗	✗	✗
Impact Resistant	✓	✓	✓	✓	✓	✓
High Modulus	✗	✓	✓	✓	✓	✓
Recyclable	✓	✓	✗	✗	✗	✗
Stiffness	✗	✗	✓	✓	✓	✓
Custom Graphic	✓	✓	✓	✓	✓	✓
Flame Retardant Available	✗	✗	✓	✗	✓	✗
Radiolucent	✓	✓	✗	✗	✗	✗

MARKET OPPORTUNITIES:



CASES

composites impact performance and lightness allow the production of customized items, ranging from suitcases to bags and cases, especially designed for technical equipment



AUTOMOTIVE & TRANSPORTATION

structural and non-structural pieces specifically meant for external and internal panels of cars, vans and boats



SPORTS EQUIPMENT

the lightweight and exceptional resistance make our composites a versatile solution for sporting applications, such as helmets, boots, skates...



BUILDING

non-structural panels for internal decorations, thanks to the optimal balance between lightness and moulding



SECURITY & DEFENSE

high impact resistance is suitable for ballistic applications, ranging from general protective equipment to customized solutions



ENERGY

thermoplastic composites are often studied to replace metal solutions. Due to their high mechanical performance and lightweight properties, they are ideal for wind blades and electrical energy