

texlyweave[®]

Specification and data sheets

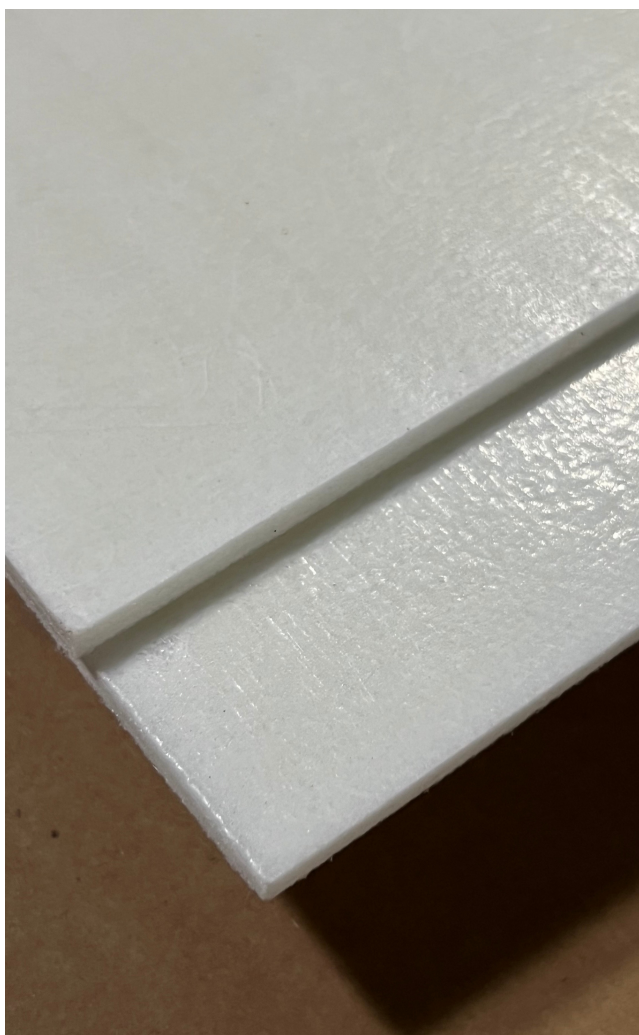
Flexible GMT Sheet for Panel

柔性玻纤增强热塑板

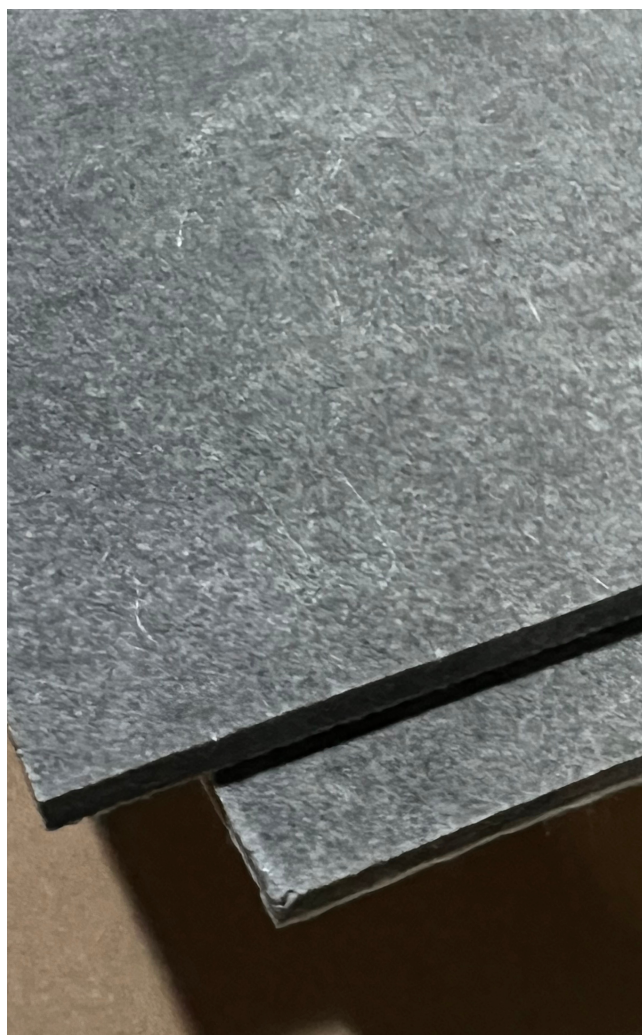
玻纤增强热塑板

GMT (Glass Mat reinforced Thermoplastics) 是一种以热塑性树脂 (PP, PA, PC, PET等) 为基体, 以长玻璃纤维毡或连续纤维毡为增强物的复合材料, 目前可通过热压成型, 实现多种优秀性能。

Glass Mat Reinforced Thermoplastic (GMT) is a semi-finished product of sheet-shaped thermoplastic glass fiber composite material. It refers to a novel, energy-saving, and lightweight composite material that uses thermoplastic resin (PP, PA, PC, PET, etc.) as a matrix and a glass fiber mat as a reinforced skeleton. It is currently an extremely active composite material in the world. The development of materials is regarded as one of the new materials of the century and was first used in automobiles. GMT sheet has characteristics highly praised for their strength, lightweight, high impact resistance, and resistance to deformation, making it an ideal structural component to replace traditional metal, wood, and stone materials used in interiors and reduce mass. In addition, unique properties can be achieved.



玻纤增强热塑板 GMT



阻燃玻纤增强热塑板 GMT with FR

Material: 玻璃纤维, 聚丙烯纤维, 石墨烯和聚乙烯: 分别 39.45%, 39.45%, 19.70%, 1.4%, 可根据产品特性调整配比增加材料。

Glass fiber, PP (polypropylene) fiber, and Graphite with PET: 39.45%, 39.45%, 19.70%, and 1.4% each, according to product demand and characteristic adjustment ratio.

Size: 厚度: 5mm 宽1220mm x 长2440mm 重量: 1900克/平方米

Thickness: 5mm Width: 1220mm x Length 2440mm Density: 1900g/m²

Traits & Properties:

1. Lightweight and good mechanical properties

ASTRINGWEAVE® Light GMT Sheet is composited of glass fiber, polypropylene, and graphene. The density of GMT material can be controlled at about 1.1, with tensile strength up to 80MPa, bending strength up to 130MPa and good impact resistance, and impact strength of notched cantilever beam up to 650J/m.

The property guarantees that the material can generate a reasonably considerable distortion under a comparatively high-stress level and effectively absorb the impact energy when encountering an impact load.

2. Recycle and good for the environment

Composed of a thermoplastic resin, GMT can be reused and recycled with excellent environmental protection performance. In addition, there will be exhaust emission of chemical substances, which can ensure a clean environment in your room, reduce weight obviously, lower fuel consumption and save energy.

After simple treatment, the leftover material of GMT and the old GMT material products can be used to produce GMT sheets again, which can not only improve the utilization efficiency of the material but also reduce waste and avoid pollution to the environment. Therefore, this material is called green material. This is a prominent advantage of GMT materials, which will be conducive to GMT materials in the increasingly stringent environmental requirements of the future and occupy a broad material market. In general, GMT can be recycled multiple times.

3. Good flame-resistance performance

ASTRINGWEAVE® Light GMT Sheet is added with superior anti-flaming through at least 20% graphene content with excellent performance fire retardant through a modification.

4. Heat and Sound Insulation

Excellent thermal insulation and acoustic insulation properties

5. High fatigue strength

GMT contains a high-performance glass fiber that enjoys good fatigue strength, adding to the remarkable plasticity of the basal body, which can eliminate or reduce stress concentration. However, the interface between the glass fiber and basal body will also result in an instead winding and challenging expanding route of cracks. Moreover, the fatigue strength of standard metal materials is only 30%~40% of tensile strength; GMT can be as high as 90%.

6. Easy cut & handle

The semi-rigid but dimensional stability sheet has good tensile strength, flexural strength, and enhanced resistance to edge cracks, protecting people from the obtuse fragment or the tenacious breach. In addition, semi-rigid allows installation to some curved space without a notch groove. In particular, its property that several functions can be integrated can ensure easy production, reduce the number of parts and components, save manufacturing and maintenance expenses, and reduce total costs. Furthermore, it is easy to cut by knife or CNC process and flexible to move in small spaces.

7. Hygienic and mildew resistant

ASTRINGWEAVE® Light GMT Sheet is zero wood content and any other organic matter; it is resistant to termites and beetles. In addition, it is mold-free, the right solution for the walls of all your high-moisture commercial projects, and never rots.

texlyweave®

we challenge the norms of weaving

Informed by continuous contact with designers and professionals in the textiles and interiors industry, we create, manufacture and distribute solutions to enhance new surface comfort of the spaces in which people live and work. **texlyweave®** products are technically sophisticated, sensitive, and hard-wearing. Their hallmark is the textile in which they are from wall to floor: **texlyweave®** is woven in our workshop in China in a palette of hundred colors. Since 2002, it has been our pride and delight to play our part in developing quality furniture and interior in China, Asia, Europe, the US, and beyond.

our woven vinyl from wall to floor with an exclusive texlyweave® creation

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*For more information, please contact us
at **info@dragonshine.net!***



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EN 14041: 2004 + AC: 2006



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