



Flexin

New thin film technologies can deliver substantial energy producing functionality throughout a building's lifespan. These "integrated" solutions represent a key opportunity to significantly reduce energy requirement of the building,

Being both strong and lightweight, composite materials have already found wide-ranging uses in structural and engineering contexts. Through advancements in materials science and engineering the potential for further applications of composite materials can be achieved by introducing functionality.

helping to move us toward our goal of zero net energy



SOLLIANCE POLYPLASTA



buildings by 2030.

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## 5 sound reasons why you should be using Composites?

Composites, especially Fiber Reinforced Polymer (FRP) composites, offer many advantages compared to traditional materials:

- 1 **Design Flexibility**: FRP composites can be fabricated into virtually any shape. An application can be complex in configuration, large or small, structural, decorative, or a combination of these. Composites free designers to try new concepts, from prototype to production.
- 2 *Lightweight*: FRP composites have a higher specific strength than most materials used in similar applications.
- 3 **Durability**: How long do composites last? Often, over fifty years and still counting.
- 4 *High strength*: FRP composites are very effective in providing high strength components. They can be designed to provide a specific range of mechanical properties, including tensile, flexural, impact and compressive strengths.
- 5 **Low Thermal Conductivity**: FRP composites are naturally poor conductors, which makes them great for applications such as window lineals, door skins, exterior cladding and other products where insulation is important. However, thermally conductive or electrically conductive materials can be incorporated into the composite part if high thermal or electrical conductivity is required.