

➤ APPLICATION OVERVIEW

Upgrade Your Composite Deck

Building & Construction
Material Solutions



Enhance the aesthetics and durability of composite decking with Avient material solutions

The building & construction industry is undergoing a shift favoring materials that are custom, durable, and enable a quick installation time. Take outdoor decking as an example. Homeowners and builders are increasingly favoring composite decking over traditional wood decking. Why? Composite decking is lightweight, strong, weather resistant, and can be customizable to meet visual preferences.

Avient is focused on meeting the growing demand for composite decking by providing composite solutions, additives and colorants, including 'cool to the touch' formulations, that can enhance both the functionality and appearance of your deck. With our diverse, innovative portfolio and robust technical knowledge, Avient is geared to help elevate the quality of your composite decking.

KEY BENEFITS

Avient's material solutions utilized in composite decking do not require any additional manufacturing steps. These transformative, high performing materials can be incorporated into existing composite decking extrusion, co-extrusion or other processes, such as compression molding or pultrusion.

Our technical expertise allows us to customize solutions to meet customer performance needs — whether it is increased stiffness, a wood-grain appearance, flame retardancy, UV-protection, lightweighting, or more.



Smarter Decking Starts with the Right Materials

Custom Aesthetics

Wood plastic composite
capstock technology

Lightweight & Durable

Unidirectional Fiberglass
Reinforced Thermoplastic Tape

Heat Management

- UV & light block additives
- Flame retardant additives

Reduced Parts & Manufacturing

Chemical foaming agents & additives

KEY BENEFIT	AVIENT MATERIAL SOLUTION	DESCRIPTION
Lightweight & Durable	Unidirectional Fiberglass Reinforced Thermoplastic Tape	<ul style="list-style-type: none"> • Provides equivalent stiffness to traditional decking with 15% reduction in weight • Can meet ASTM E84 Class A & B flame ratings • Incorporates via co-extrusion with strong adhesion to deck boards
Custom Aesthetics	Wood Plastic Composite Capstock Technology	<ul style="list-style-type: none"> • Color-matching capabilities to achieve realistic wood-grain feel and appearance • Processed via co-extrusion as a substrate to the outer layer of decking • Ability to be combined with colors and additional additives as a Smartbatch™ solution
Added UV Protection	UV & Light Block Additives	<ul style="list-style-type: none"> • Formulated with various light stabilizers as a protectant from UV degradation • Ensures low maintenance and reduction of surface cracking • Can be combined with colors and additional additives as a Smartbatch™ solution
Enhanced Fire Safety	Flame Retardant Additives	<ul style="list-style-type: none"> • Reduces flame spread, heat release, fumes, and smoke to meet B&C standards • Available in halogenated, non-halogenated, or non-antimony forms • Can be combined with colors and additional additives as a Smartbatch™ solution
Reduced Weight & Increased Efficiencies	Chemical Foaming Agents & Additives	<ul style="list-style-type: none"> • Tight tolerance of uniform cell structure to meet density requirements • Compatible with extrusion manufacturing process • Increase energy savings and manufacturing efficiencies while reducing overall part weight

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