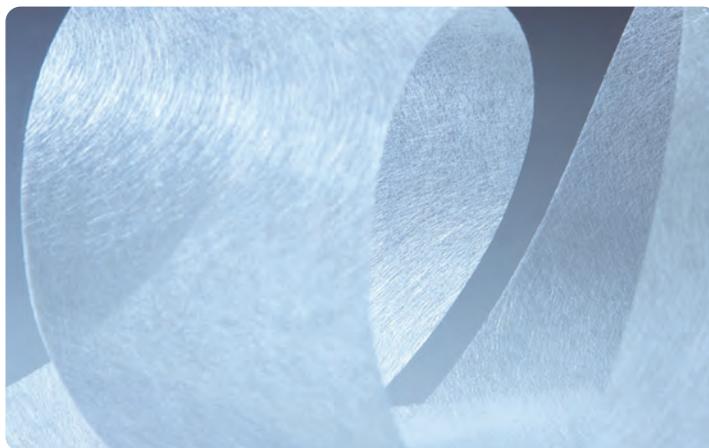
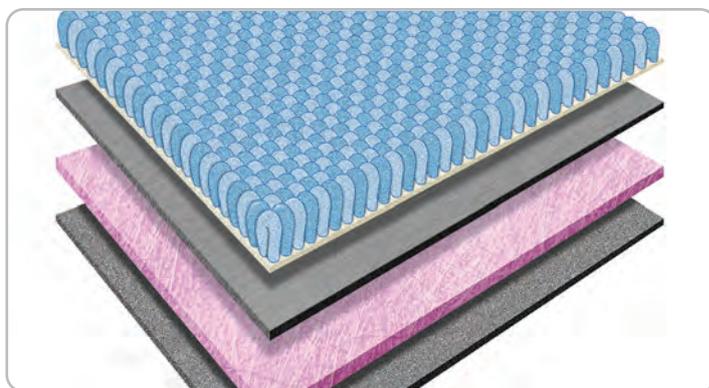


Glass nonwoven solutions for carpet tile flooring applications



Owens Corning is redefining product performance to provide composite solutions that help our customers win.

As a world leader in glass science, Owens Corning possesses a proud heritage of developing many influential innovations in the history of the glass fiber industry including E-glass, the Advantex® brand, and an array of high-performance glasses.

Our manufacturing platform spanning more than 30 facilities ensures delivery of consistent solutions in all regions and in every product form from continuous roving to non-woven glass chemistry.

The support from our 6 research and development centers allows locally engineered and tailored solutions for our customers and in a wide range of applications.



Furnace & glass science



Innovative chemistry



Reinforcement solutions



Global platform



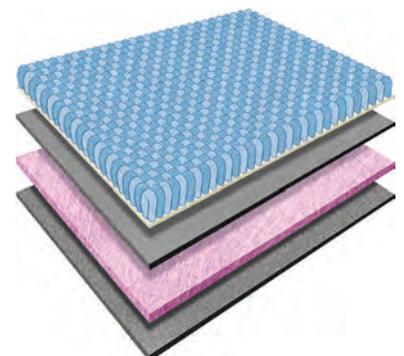
Products designed specifically for the needs of our customers

Applications

- Reinforcement of carpet tile with PVC, PP or bitumen backing
- Reinforcement of heterogeneous cushion vinyl flooring.

Example of carpet tile reinforcement:

Construction	Process	Nonwoven
<ul style="list-style-type: none"> • Tufting process • Type of scrim • Glass nonwovens • Backing thickness • 2nd backing 	<ul style="list-style-type: none"> • Backing with either Bitumen or PVC • Position of nonwovens in either PVC or Bitumen layer 	<ul style="list-style-type: none"> • Binder chemistry • Nonwoven weight <p>Key benefits:</p> <ul style="list-style-type: none"> • Dimensional stability • Durability • Sustaina™ bio-based binder system with high tensile strength performance • Sustaina™ bio-based binder system does not contain any formaldehyde



Benefits of Owens Corning nonwovens in carpet tile and cushion vinyl flooring applications:

Application	Standard	Up curl	Dimensional stability	Heating stability
Cushion vinyl flooring	GB/T 11982.2	< 2 mm	Heating shrinkage ratio < 0.20%	Can stand hi-temp manufacture conditions
Carpet tile	QB/T 2755	< 1.5 mm	Heating shrinkage ratio < 0.10%	Can stand hi-temp manufacture conditions

Based on customer feedback, China, 2014

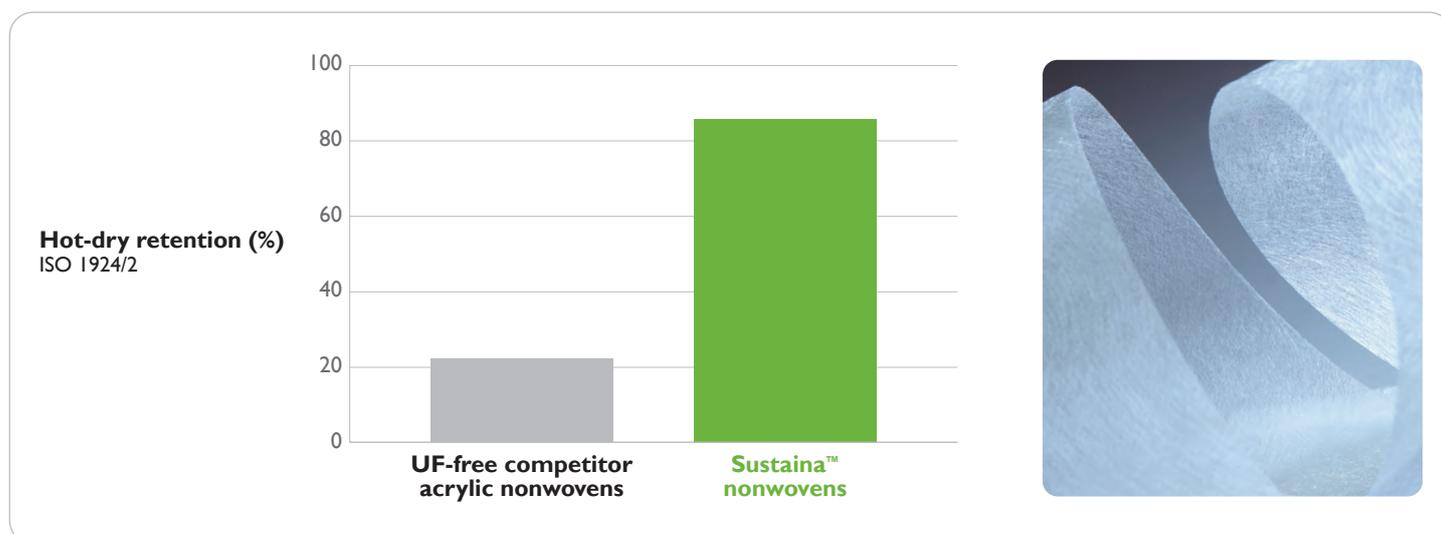
Sustaina™ biobased, non-UF containing nonwovens provide key benefits Sustaina™ binder system is serving the carpet tile segment



- Nonwovens strength
- Thermal stability
- Dimensional stability of the finished carpet tile
- Little/no creep of the finished carpet tile
- Cost effectiveness vs. other non-UF containing nonwovens



Hot tensile retention Sustaina™ nonwovens vs. UF-free competitor nonwovens



Owens Corning internal tests – Tony Wu, Marjo Peeters, Anne Berthereau, Sustaina™ Carpet Tile, Granville S&T, Oct. 05, 2011

Sustaina™/Acrylic/UF-based nonwovens compared

	Sustaina™ nonwovens	Acrylic	UF
Certified Biobased*			
Tensile strength	High	High	High
Hot tensile strength	High	Low	High
Wet tensile strength	High	High	High
Cost	Low	Low	High

* Owens Corning has an entry in the US Department of Agriculture BioPreferred catalog for Sustaina™ as being a biobased product with 49% biobased content (based on only the organic portion of the product).



Americas

Owens Corning
Composite Materials, LLC.
One Owens Corning Parkway
Toledo
Ohio 43659
1-800-GET-PINK™

Brazil

OC Fabrics Brazil
Rodovia Washington Luis,
Km 171
ZIP: 13501-600
Rio Claro - SP - Brazil
+55 19 2111-2602/2606

Europe

European Owens Corning Fibreglas Sprl.
166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+32.2.674.82.11

China

Owens Corning - OC Asia Pacific
Shanghai Regional Headquarters
Unit 01
02.05, 39/F,
Pudong Kerry Parkside,
1155 Fang Dian Road,
Pudong,
201204,
Shanghai,
China
+86-21-6101 9666
Fax: +86-21-6101 7100

India

Owens Corning (India) Pvt. Ltd.
7th floor, Alpha Building,
Hiranandani Gardens,
Powai,
Mumbai - 400076.
+91 22 6668 1700

This information and data contained herein is offered solely as a guide in the selection of reinforcements. The information contained in this publication is based on actual laboratory data and field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law safety code or insurance regulation.

Owens Corning reserves the right to modify this document without prior notice.
© 2014 Owens Corning. All Rights Reserved.
Pictures copyright istockphoto.com

Pub number 10019013
Flooring_ww_022014_Rev0_EN_brochure
February 2014

composites.owenscorning.com

