



Ultrablade® G3 fabrics redefined high performance reinforcements for wind energy



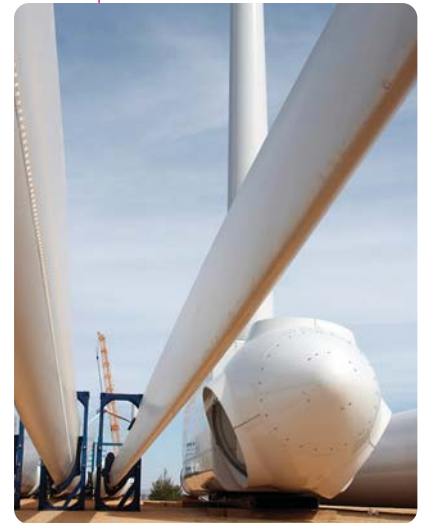


Owens Corning is redefining product performance to provide composite solutions that help our customers win.

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

Spanning more than 30 facilities, our manufacturing platform ensures delivery of consistent, customer-inspired solutions in all regions and product forms, from continuous roving to non-woven glass chemistry.

This global footprint is enhanced by support from 6 research and development centers providing locally engineered and tailored solutions for our customers in a wide range of applications.



Furnace & glass science



Innovative chemistry



Fabric solutions



Global platform



Ultrablade® G3 fabrics

Enabling further innovation in blade design.

- High modulus fabrics
- Operation at 57% FVF (Fiber Volume Fraction)
- Excellent 90° performance
- 5% blade mass reduction*
- 20% longer blades
- Improved infusion properties

*Spar cap weight reduction and use in skin laminate



Ultrablade® G3 fabric range

Ultrablade® UD fabrics	Type	Applications
Ultrablade® G3 LTx 1150-1800	UD 0°	Spar cap and trailing edge

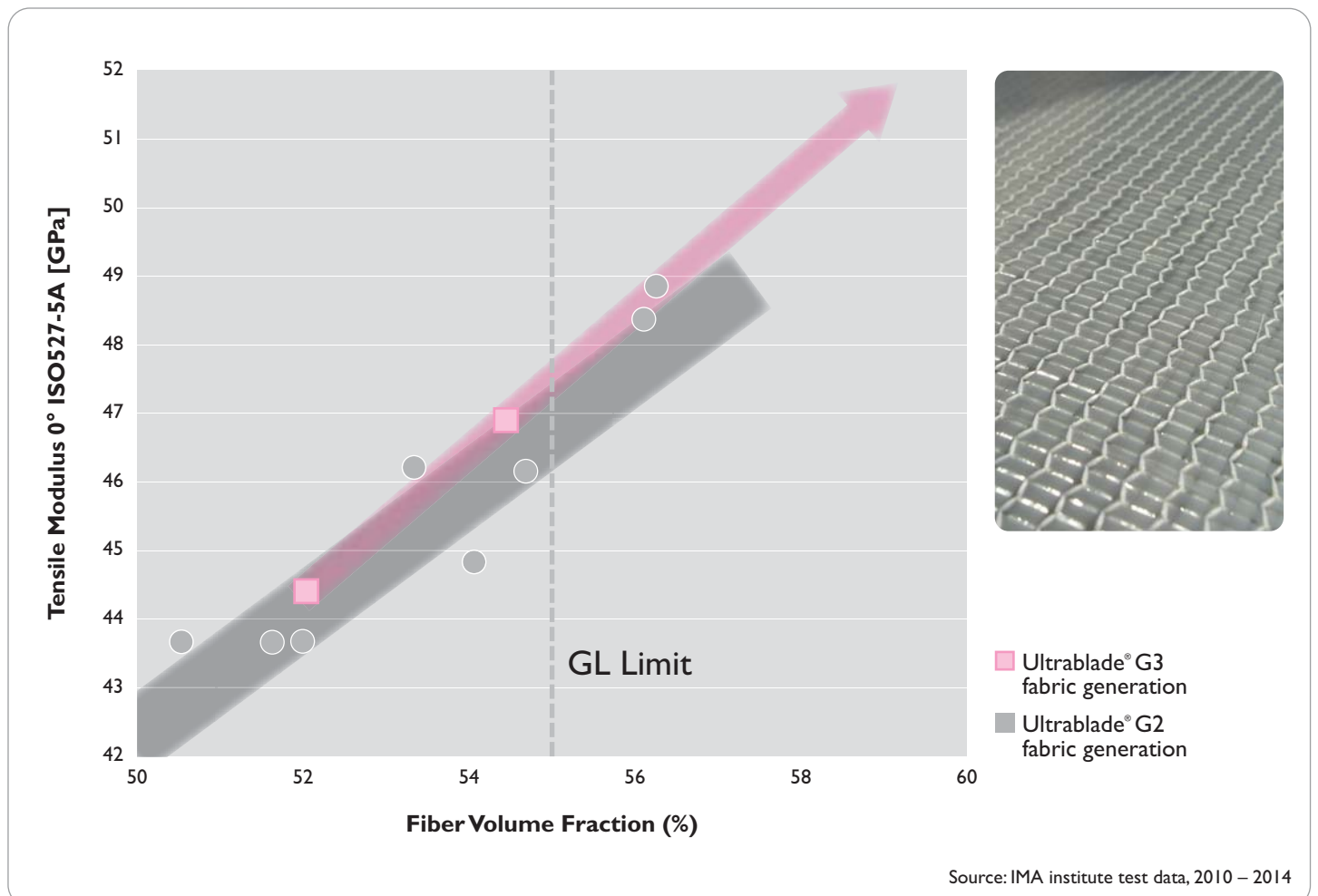
Static properties of Ultrablade® G3 fabrics range (as an example)

Average values from fabric laminate tests (IMA-Dresden, Resin LI35/HI37, FVF 53-56%).

Test	Norm	Strength (MPa)	Strength (95%/5%) (MPa)	Elongation (%)	Elongation (95%/5%) (%)
Tensile, 0°	ISO527-5A	1149	1055	2.81	2.38
Compression 0°	ISO14126	904	792		
Shear	ISO14129	47			
	ASTM D7078	60			
ILSS	ISO14130	61			
Inter Fiber Fracture	ISO527-5B	56			

Enabling blade design with high quality mechanical data

Fabric laminate stiffness in main fiber direction.





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

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