



ULTRAPIPE[®] FABRICS

Ultrapipe[®] fabric solutions are based on Advantex[®] E-CR glass, combining excellent corrosion properties with a long lifetime. Our extra translucent glass helps extend the diameter range and glass-based UV lining solutions. Ultrapipe fabrics provide the ideal solution for In Situ Pipe Relining.

Product Benefits

Ultrapipe[®] fabrics have been specially designed to increase the UV-light transparency of the composite laminate for improved composite cross linking and mechanical properties. Ultrapipe[®] fabrics deliver:

Enhanced UV cure performance

- Enables shorter cure cycle and the production of thicker laminates

High corrosion resistance

- All solutions based on Advantex[®] E-CR glass for longer service life of the installed liner

Superior mechanical properties and stretchability

- Offering high-performance laminates

Easier processing properties

- Fast wet-out and impregnation

Manhole Rehabilitation Applications

In manhole refurbishment applications, Ultrapipe[®] glass fibers provide superior translucency for faster and more efficient curing with UV light. Our fabrics are available in two types: MLOCM and DLOC, which are specially designed to fit the shape and size of any manhole due to their long-oriented chops and multidirectional reinforcements. Our fabrics' high elongation performance enable a perfect fit and smooth finish, ensuring a durable and leak-proof seal.



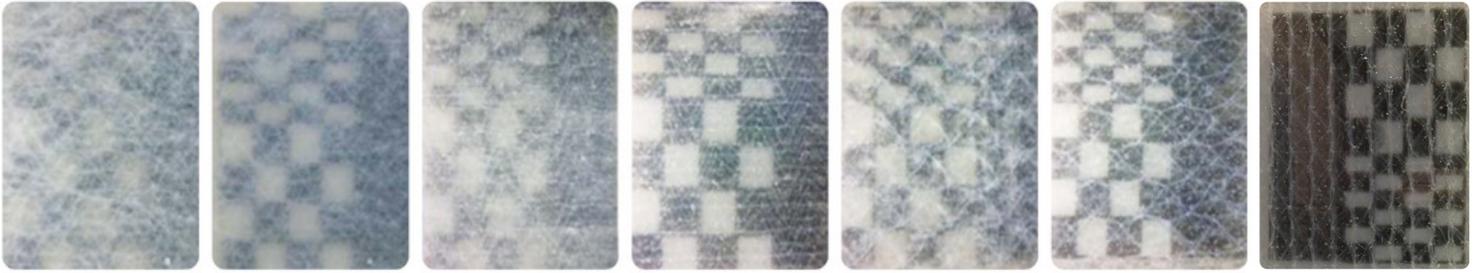
Cured-in-Place Pipe Fabrics Product Line

PRODUCT OFFERINGS							PROCESS/APPLICATIONS							
PRODUCT LINE	PRODUCT REFERENCE	RESIN COMPATIBILITY					MULTI COMPATIBLE		TRANSLUCENCY	IMPREGNATION	MECHANICAL PROPERTIES	WINDING	FOLDING	STITCHING
		TYPE OF GLASS					ADVANTEK [®]					STRETCHABILITY	AVAILABILITY OF WIDTH	STRETCHABILITY
		PRODUCT PLANT					EU							
		AREA WEIGHT RANGE (G/M ²)												
		IN CONTINUOUS FIBERS	VEIL	LONG ORIENTED CHOPPED FIBERS	IN RANDOM FIBERS (MER)	TOTAL WEIGHT								
LOC	VLOC	0-70	25-30	400-800	100-295	700-1000	+++	++	++	+++	N/A	N/A		
Stitched Veil	SV	0-150	0-30		450-700	550-730	+	++	=	++	N/A	N/A		
WR/S	WRy/S	500-1000			250-500	750-1500	++	++	+	N/A	+	N/A		
LT/S	LT/S	300-1000	0-100	N/A	250-600	550-2000	++	+++	++	N/A	=	N/A		
	LTy/S	300-1500	0-100	N/A	250-600	550-2000	++	+++	++	N/A	=	N/A		
DLOC	DLOC	90-120		400-1600	200	700-1900	++	++	+	N/A	=	++		
	VDLOC	250-300	25-30	400-1600		700-1900	++	++	+	N/A	=	++		

For drinking water contact applications, contact productcompliance@owenscorning.com to enquire about the status of the product.

LINEAR TECHNOLOGY	PRODUCT	CONSTRUCTION
Winding Process	Ultrapipe [®] SV Solution	Mat Complex
Winding Process	Ultrapipe [®] MLOCM	Mat combined with Long Oriented Chop
Folding Process	Ultrapipe [®] LT/S	Woven Roving and Mat, Complex Non Crimped Fabrics and Chopped Strand Mat

Translucency



Industry Reference

Ultrapipe® SM650

MLOCM Standard

Ultrapipe® MLOCM

WRM Standard

Ultrapipe® WRM

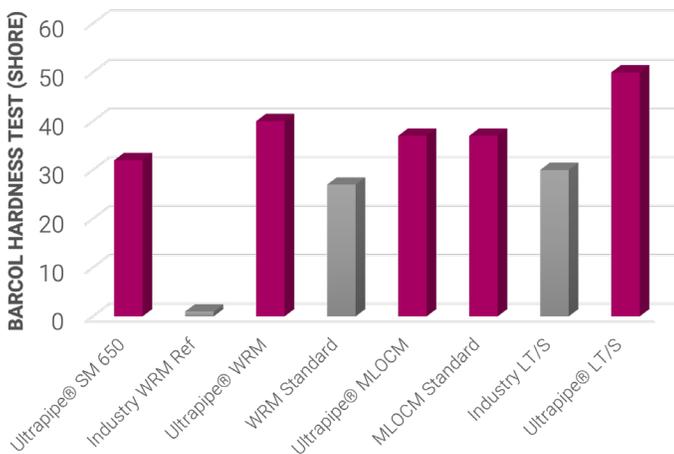
Ultrapipe® LT/S

UV-cured laminates of 4 mm thickness demonstrating the increased translucency of Ultrapipe® versus reference products.

Hardness

Barcol hardness at back-side of 4mm UV-cured laminates demonstrating the UV-cure performance of Ultrapipe® versus reference products.

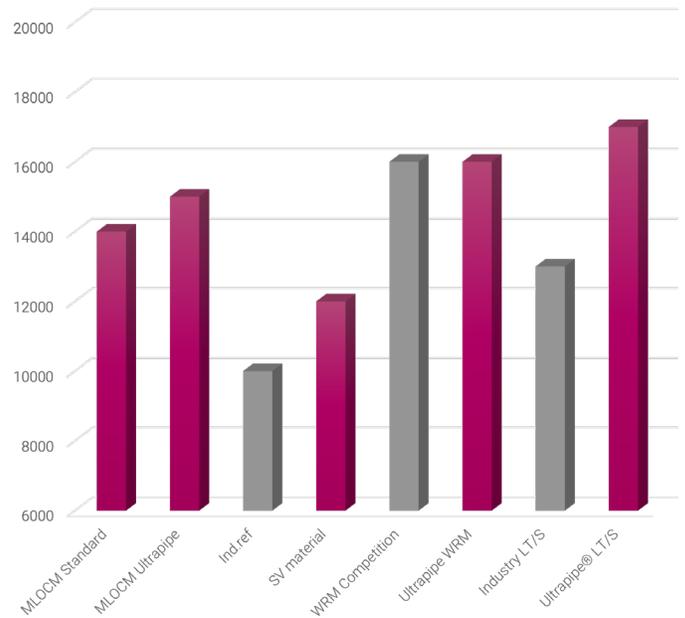
PANEL BOTTOM SIDE HARDNESS EVALUATION



Mechanical Properties

Comparison of mechanical properties of Ultrapipe® solutions versus reference materials. Figure showing flexural E-modulus in the hoop direction of the pipe before and after stretching the fabric before cure.

E modulus (MPa)



Americas

Owens Corning Composite Materials, LLC

One Owens Corning Parkway
Toledo, OH 43659 USA
1-800-GET-PINK®

Europe

European Owens Corning Fiberglas Sprl.

166 Chaussée de la Hulpe
B-1170 Brussels
Belgium
+32 3 674 8211

Asia Pacific

Owens Corning Shanghai Regional Headquarters

40/F, Pudong Kerry Parkside,
115 Fang Dian Road, Pudong,
Shanghai, 201204, China
+86-21-6101 9666

This information and data contained herein is offered solely as a guide in the selection of product. 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 of the product to determine its suitability. 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 on any patent or violate any law, safety code, or insurance regulation. We reserve the right to modify this document without prior notice.

Pub number: 10015889-A. January 2024. English.

THE PINK PANTHER™ & © 1964–2024 Metro-Goldwyn-Mayer Studios Inc. All Rights Reserved. © 2024 Owens Corning. All Rights Reserved.