



SHEERWEAVE[®]
BY PHIFER

STYLE
4400 / 4000 / 4100
with DOW ECOLIBRIUM[™]
Bio-based Plasticizer

WEAVING
EXCELLENCE
WITH
INNOVATION



The DOW ECOLIBRIUM Value Proposition:

DOW ECOLIBRIUM™ Bio-Based Plasticizers offer a renewable alternative that is phthalate-free, offering a more sustainable option while having the same great performance and feel of current materials.

- Lowers greenhouse gas emissions as much as 40% vs. existing PVC compounds
- 98% of the plasticizer is derived from non fossil fuel based feed stock
- Phthalate-free
- Lower carbon footprint*
- LEED credits for rapidly renewable content may be available**
- RoHS compliant
- Ability for compound to be recycled in a standard vinyl stream
- Maintains all of the established benefits of traditional vinyl such as durability, cleanability and fabric longevity

*Based on Lifecycle Analysis (LCA) conducted by The Dow Chemical Company and third party reviewed.
 **See website www.usgbc.org for more information.

Code	Color	SOLAR OPTICAL PROPERTIES				SHGC/G VALUE	
		TS	RS	AS	TV	g-tot (glass & blind) SINGLE 1/4 CL	INSULATING 1 HA
STYLE 4400 - 3%							
U58	Eco/Chalk	12	70	18	7	0.26	0.13
U59	Eco/Alabaster	10	62	28	6	0.30	0.15
U60	Eco/Pebblestone	9	51	40	6	0.37	0.24
U61	Eco/Greystone	6	39	55	5	0.42	0.28
U62	Eco/Granite	6	48	46	5	0.37	0.17
U63	Eco/Pewter	3	26	71	2	0.49	0.22
U64	Eco/Ash	3	10	87	4	0.57	0.36
U65	Eco/Ebony	3	3	94	3	0.61	0.37
U66	Eco/Tobacco	3	5	92	3	0.60	0.37
STYLE 4000 - 5%							
U58	Eco/Chalk	16	68	16	12	0.28	0.22
U59	Eco/Alabaster	15	57	28	13	0.34	0.24
U60	Eco/Pebblestone	14	49	37	12	0.38	0.26
U61	Eco/Greystone	10	34	56	9	0.45	0.21
U62	Eco/Granite	11	41	48	10	0.42	0.20
U63	Eco/Pewter	8	27	65	9	0.49	0.31
U64	Eco/Ash	7	11	82	8	0.57	0.26
U65	Eco/Ebony	6	5	89	8	0.60	0.37
U66	Eco/Tobacco	7	5	88	8	0.61	0.27
STYLE 4100 - 10%							
U58	Eco/Chalk	18	66	16	15	0.30	0.22
U59	Eco/Alabaster	19	56	25	16	0.36	0.25
U60	Eco/Pebblestone	16	48	36	15	0.39	0.27
U61	Eco/Greystone	14	35	51	14	0.46	0.30
U62	Eco/Granite	15	42	43	14	0.43	0.20
U63	Eco/Pewter	12	26	62	14	0.50	0.32
U64	Eco/Ash	10	10	80	11	0.58	0.27
U65	Eco/Ebony	10	4	86	11	0.62	0.37
U66	Eco/Tobacco	10	5	85	11	0.61	0.28



TS = Solar Transmittance
 RS = Solar Reflectance
 AS = Solar Absorptance
 TV = Visual Transmittance

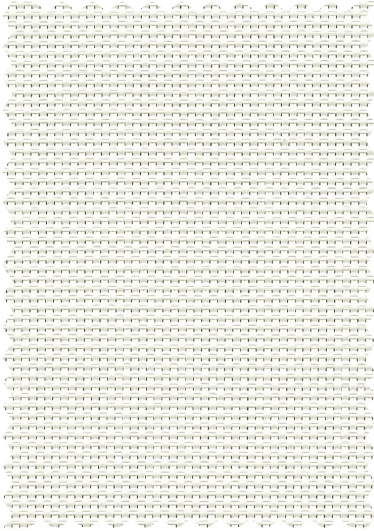
SHGC = Solar Heat Gain Coefficient

1/4 CL = 1/4" Clear Glass
 1 HA = 1" Heat Absorbing Glass

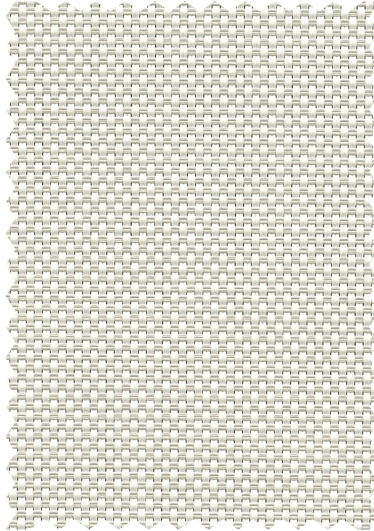
Fabrics Installed Internally
 Zero-Degree Profile Angle

For additional performance values, test references and technical definitions visit us at phifer.com.

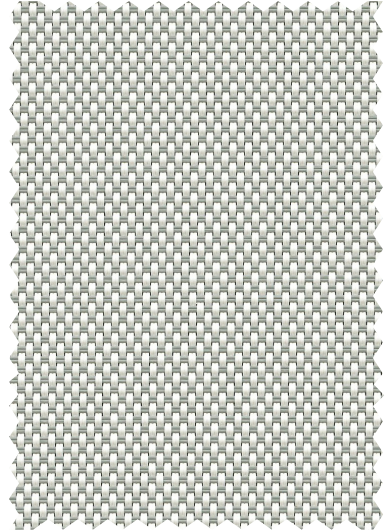
U58 Eco/Chalk



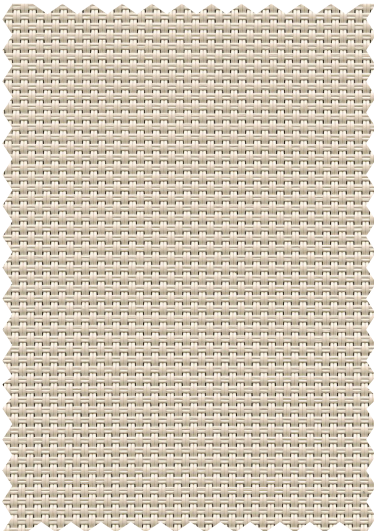
U59 Eco/Alabaster



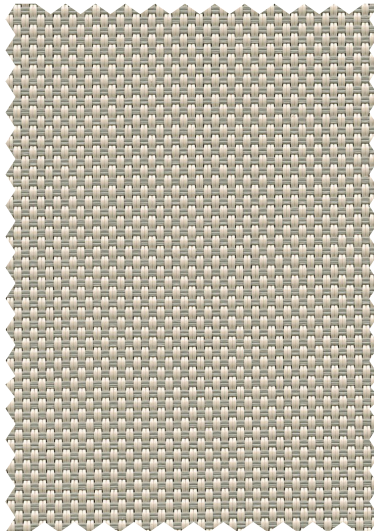
U62 Eco/Granite



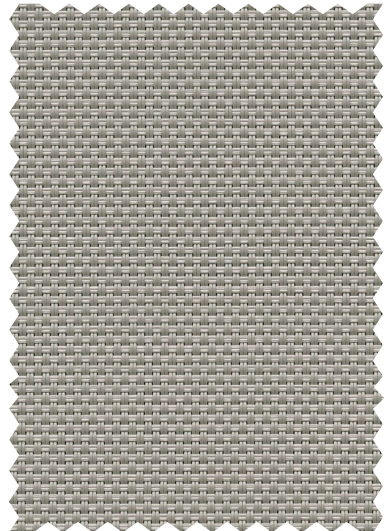
U60 Eco/Pebblestone



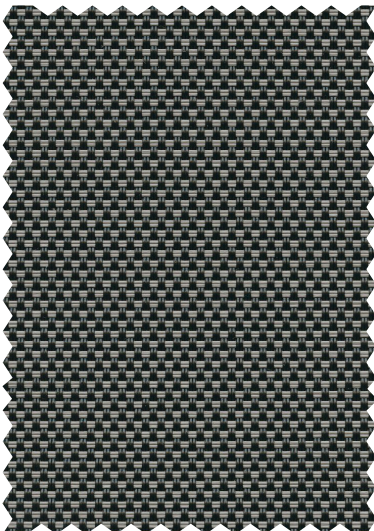
U61 Eco/Greystone



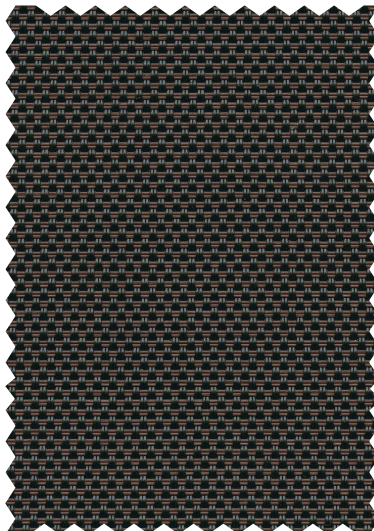
U63 Eco/Pewter



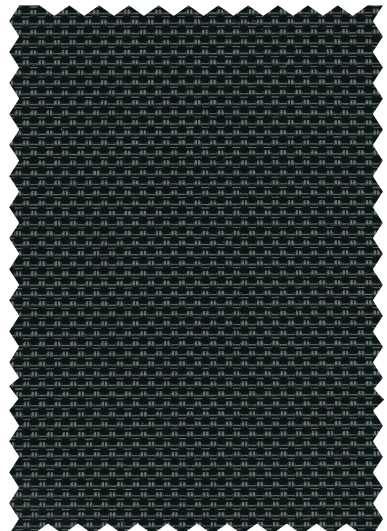
U64 Eco/Ash



U66 Eco/Tobacco



U65 Eco/Ebony



STYLE 4400 / 4000 / 4100 SPECIFICATIONS

As the only sun control fabrics in the market to use DOW's unique ECOLIBRIUM bio-based plasticizer, Styles 4400, 4000 and 4100 combine the durability of vinyl coated polyester with the latest in green PVC technology. ECOLIBRIUM is a renewable alternative to traditional plasticizers that lowers greenhouse gas emissions as much as 40% vs existing PVC compounds. Styles 4400, 4000 and 4100 with DOW ECOLIBRIUM is phthalate-free, lead-free and RoHS compliant. These fabrics maintain all of the established benefits of traditional vinyl such as durability, cleanability and fabric longevity. Styles 4400, 4000 and 4100 can also be used in exterior shading systems.

FIRE CLASSIFICATION	CAN/CGSB2-4.162-M80 NFPA 101 (Class A Rating) NFPA 701 TM#1 (small scale) NFPA 701 TM#2 (large scale)	California U.S. Title 19 (small scale) BS 5867 Part 2 Type B Performance IBC Section 803.1.1 (Class A Rating) CAN/ULC-S 109 (large and small scale)
	<i>Fire classifications are subject to change. Please go to phifer.com for the most current information.</i>	
BACTERIA AND FUNGAL RESISTANCE	ASTM E 2180 GREENGUARD Mold and Bacteria Standard Includes Microban antimicrobial additives	ASTM G21 ASTM G22 AATCC30 Part 3 ASTM D 3273
ENVIRONMENTAL CERTIFICATION	GREENGUARD Certified to these standards for low chemical emissions into indoor air during product usage DOW ECOLIBRIUM Plasticizer is a USDA Certified Bio-Based Product	GREENGUARD Gold
SAFE USE	RoHS/Directive 2002/95/EC ANSI/WCMA A 100.1-2007 for lead content	REACH (EC 1907/2006) compliant US Consumer Product Safety Commission Section 101
WARRANTY	10-year interior 5-year exterior	
ACOUSTICAL PERFORMANCE	NRC (Noise Reduction Coefficient) and SAA (Sound Absorption Average) tested in accordance with ASTM C423-09a	
UV PROTECTION	Seal of Approval by the Melanoma International Foundation (MIF) for effectiveness in preventing sun damage to the skin or eyes	

STYLE	4400	4000	4100
WIDTHS	63", 84", 98" and 126" 160 cm, 213.4 cm, 248.9 cm and 320 cm	63", 84", 98" and 126" 160 cm, 213.4 cm, 248.9 cm and 320 cm	63", 84" and 98" 160 cm, 213.4 cm and 248.9 cm
ROLL LENGTH	30 Linear Yards 27.4 Linear Meters	30 Linear Yards 27.4 Linear Meters	30 Linear Yards 27.4 Linear Meters
COMPOSITION	25% Polyester 75% Vinyl on Polyester <small>(Over 50% of compound components are derived from crop-based feed stocks and minerals. Over 2/3 of total compound is derived from non fossil fuel based materials.)</small>	25% Polyester 75% Vinyl on Polyester	25% Polyester 75% Vinyl on Polyester
MESH WEIGHT	19.9 oz/yd ² 675 g/m ²	18.0 oz/yd ² 610 g/m ²	16.7 oz/yd ² 566 g/m ²
FABRIC THICKNESS	0.034 in 0.86 mm	0.032 in 0.81 mm	0.032 in 0.81 mm
OPENNESS FACTOR	Approximately 3%	Approximately 5%	Approximately 10%
UV BLOCKAGE	Approximately 97%	Approximately 95%	Approximately 90%
ACOUSTICAL VALUE	NRC .20 / SAA .19	NRC .10 / SAA .11	NRC .05 / SAA .05

PHIFER
INCORPORATED

P. O. Box 1700 • Tuscaloosa, Alabama 35403-1700 USA
Phone: 205.345.2120 • FAX: 205.391.0799
Toll Free USA/Canada: 1.800.221.5497
phifer.com • ISO Registered



© SheerWeave is a registered trademark of PHIFER INCORPORATED.
© TM ECOLIBRIUM and the DOW Diamond are trademarks of The Dow Chemical Company ("Dow") or an affiliated company of Dow.
© MICROBAN is a registered trademark of Microban Products Company.
TM UL, the UL logos and the UL mark are trademarks of UL LLC.
Photo courtesy of Terza, México.
© PHIFER INCORPORATED V21 051821 3033834