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.

		SOLAR OPTICAL PROPERTIES				SHGC/G VALUE g-tot (glass & blind)	
						SINGLE	*INSULATING*
Code	Color	TS	RS	AS	TV	1/4 CL	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

MADE WITH DOW ecolibrium™ BIO BASED PLASTICIZERS

PROTECTION THAT LIVES ON MICROBAN®

Microban® antimicrobial protection inhibits the growth of stain-causing bacteria, mold and mildew on the shade.

GREENGUARD GOLD — PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL.COM/GG UL 2818

APPROVED BY MELANOMA INTERNATIONAL FOUNDATION — MIF Seal of Approval

DOW ECOLIBRIUM™ is a USDA CERTIFIED BIOBASED PRODUCT PRODUCT 98%

PRINTABLE

SAFE USE

ENERGY SAVING

PHTHALATE FREE

PROUDLY MADE IN THE USA

HALOGEN FREE FLAME RETARDANT

10 YEAR INTERIOR WARRANTY

5 YEAR EXTERIOR WARRANTY

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

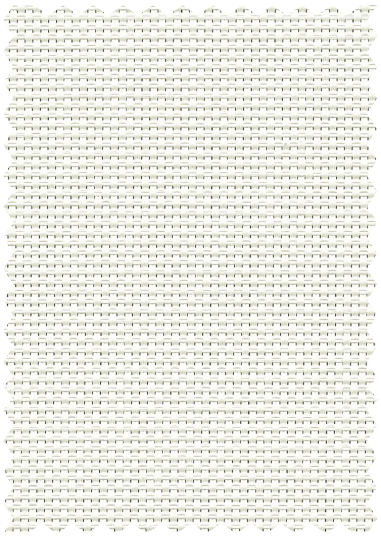
SHGC = Solar Heat Gain Coefficient

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

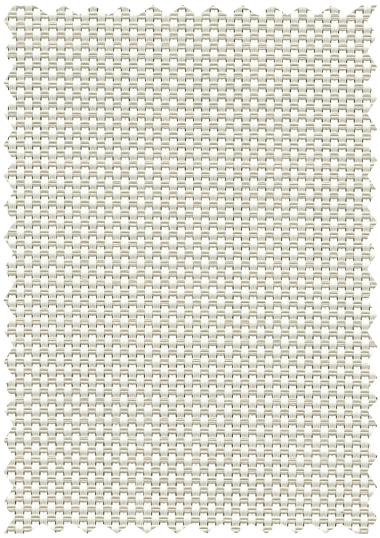
Fabrics Installed Internally
Zero-Degree Profile Angle

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

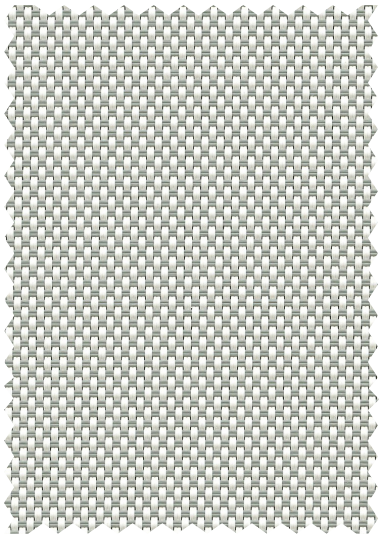
U58 **Eco / Chalk**



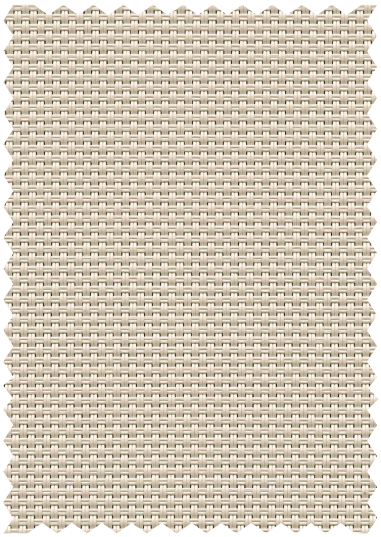
U59 **Eco / Alabaster**



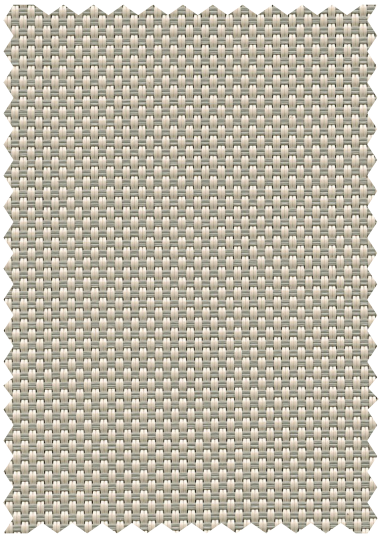
U62 **Eco / Granite**



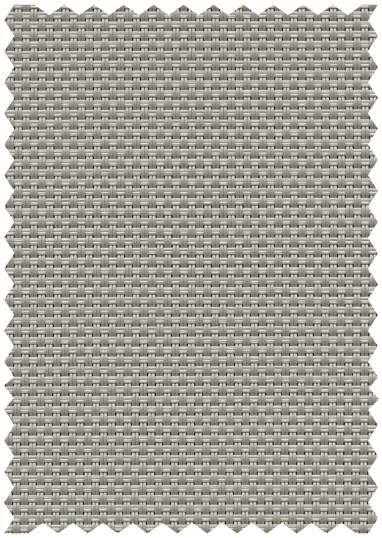
U60 **Eco / Pebblestone**



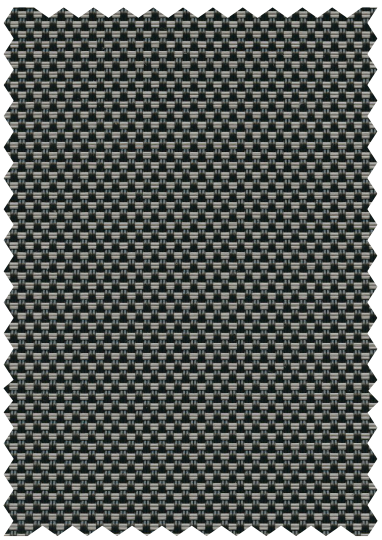
U61 **Eco / Greystone**



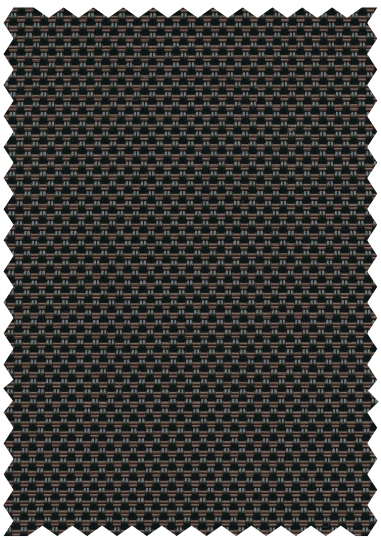
U63 **Eco / Pewter**



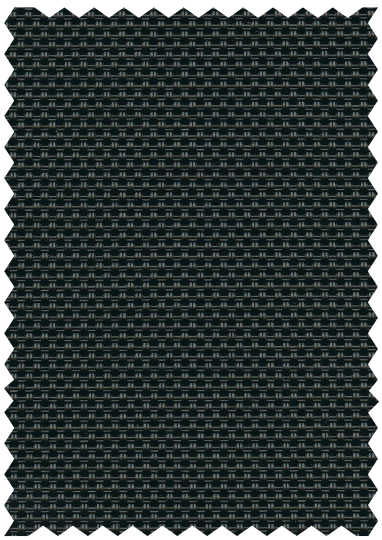
U64 **Eco / Ash**



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)

Fire classifications are subject to change. Please go to phifer.com for the most current information.

BACTERIA AND FUNGAL RESISTANCE

ASTM E 2180 ASTM G21 ASTM G22 AATCC30 Part 3 ASTM D 3273
GREENGUARD Mold and Bacteria Standard ASTM 6329
Includes Microban antimicrobial additives

ENVIRONMENTAL CERTIFICATION

GREENGUARD GREENGUARD Gold
Certified to these standards for low chemical emissions into indoor air during product usage
DOW ECOLIBRIUM Plasticizer is a USDA Certified Bio-Based Product

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	25% Polyester 75% Vinyl on Polyester	25% Polyester 75% Vinyl on Polyester
	(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.)		
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

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