



SHEERFILL Architectural Membranes – Now Available with EverClean™ Photocatalytic Topcoat

Typical Properties ¹	SHEERFILL I	SHEERFILL II	SHEERFILL IIA	SHEERFILL V
Coated Fabric Weight, oz./sq. yd. (ASTM 4851-88)	45.5 nominal	38.5 nominal	38 nominal	29 nominal
Thickness, mils. (ASTM 4851-88)	36 nominal	30 nominal	28 nominal	22 nominal
Strip Tensile, lbs./in. (Strain Rate: 2 ins./min.) (ASTM 4851-88)				
Dry, Warp	975 min. avg.	785 min. avg.	640 min. avg.	520 min. avg.
Dry, Fill	900 min. avg.	560 min. avg.	640 min. avg.	590 min. avg.
Trapezoidal Tear, lbs./in. (ASTM 4851-88)				
Dry, Warp	95 min. avg.	70 min. avg.	60 min. avg.	35 min. avg.
Dry, Fill	120 min. avg.	65 min. avg.	70 min. avg.	60 min. avg.
Solar Transmission, % (ASTM E-424)	10 nominal	12.5 nominal	16 nominal	17.5 nominal
Solar Reflectance, % (ASTM E-424)	70 nominal	73 nominal	72.5 nominal	72.5 nominal
Burning Characteristics				
Flame Spread (ASTM E-84)	5 max.	5 max.	5 max.	0 max.
Smoke Generation (Tunnel Test)	5 max.	10 max.	20 max.	0 max.
Incombustibility of Substrates (ASTM E-136)	Pass	Pass	Pass	Pass
Fire Resistance of Roof Coverings (ASTM E-108)				
Spread of Flame and Intermittent Flame	Class A	Class A	Class A	Class A
Color (After Exposure to Sunlight)	White	White	White	White

¹ Values listed are for virgin roll goods only. Appropriate industry safety factors need to be used to account for the in-service effects of handling, weathering, etc.

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Architectural Membrane

Sheerfill[®]

I
II
IIA
V

The name behind the landmarksSM

An ENERGY STAR partner



YOUR DESIGNS
ARE LIMITED
ONLY BY YOUR
IMAGINATION.

More and more architects
are capitalizing on the
structural versatility
of SHEERFILL®. Proven
in the construction of
stunning, energy-efficient
sports facilities and
transportation terminals,
SHEERFILL is a unique
material that ensures any
building will stand
as a landmark in design.


SAINT-GOBAIN

Cover photo
MOSES MOBHIDA STADIUM
DURBAN, SOUTH AFRICA

Membrane fabrication and
installation by Birdair, Inc.



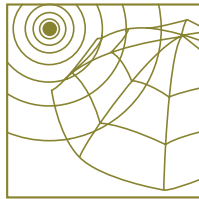
ANDERSON DANCE PAVILION
SIOUX CITY, IOWA



THE HAJ TERMINAL
JEDDAH, SAUDI ARABIA



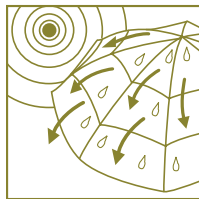
DENVER INTERNATIONAL AIRPORT
DENVER, COLORADO



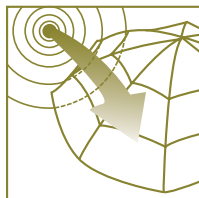
Outdoor lighting, indoor comfort. SHEERFILL Architectural Membrane enables the construction of buildings with a stunning architectural profile, but the true beauty lies in the superior ability of SHEERFILL to transmit light. SHEERFILL brings the open, airy feeling of color-correct light indoors, filling even large sports complexes and industrial facilities with diffuse, natural daylight. SHEERFILL's backlit luminosity at night creates a unique and dramatic architectural signature on the skyline.



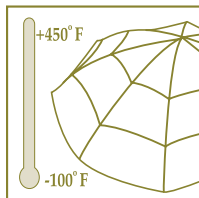
Proven long-term durability. In contrast to traditional roofing materials that would require replacement, tests prove that SHEERFILL tensile structures provide up to 25 years or more of reliable service. There is no relaxation of the membrane from its original shape, even after years of withstanding high live loads, such as heavy snows and high winds.



Stain resistant for enduring beauty. The translucent characteristics and visual appeal of SHEERFILL are unaffected by age, climate, pollutants or discoloration. Its impervious Teflon® coating makes SHEERFILL highly resistant to staining. SHEERFILL repels airborne particulates and chemicals that adhere to other materials. The natural action of rain keeps the surface clean and white.



Highly energy efficient. SHEERFILL transmits up to 15% of daylight without the heat gain of traditional glazings. Shaded areas remain bright, yet cool, even on the hottest days. HVAC costs are lower compared to other glazing alternatives, because SHEERFILL minimizes the need for heat dissipation. Reduced lighting requirements during the day also result in a substantial reduction in energy costs.



Greater versatility and building utility. SHEERFILL is an extremely versatile building material. It meets fire code requirements for virtually all types of construction, and remains unchanged in temperatures ranging from -100°f. to +450°f. With its long list of attributes, SHEERFILL offers architects new flexibility in design. A variety of panel shapes can be combined into almost endless geometric configurations, allowing architects to address complex aesthetic and functional challenges while creating buildings of stunning beauty and excitement.

**Sheerfill
I, II, IIA, and V**

**all bleach from tan to
white when exposed
to sunlight.**

Sheerfill I

**features highest
tensile strength for
spanning greatest
distances**

Sheerfill IIA

**features highest possible
light transmission in
a heavyweight material.**

Sheerfill II

**offers the best balance of
light transmission and
tensile strength.**

Sheerfill V

**offers higher tensile
strength with minimal
reduction in light
transmission**