



## Sungate ThermL™ U-Value Enhancing Low-e Glass

# U-Value Enhancing Low-e Coating

A fourth-surface low-e coating, *Sungate ThermL™* glass is neutral, colorless and provides low reflectivity, improving thermal performance and daylighting wherever needed.

**Aesthetic:** Exceptionally clear

**Reflectivity:** Very low

Availability				
Titan™ Glass Sizes	BirdSmart® Glass	Annealed	Heat Treatable	Vitro Certified® Network
✓	✓		✓	✓

Compatibility		
Laminated	Bent	Heat Soaked Testing
✓		✓

**Insulating Glass Unit Performance Comparisons | 1-inch (25 mm) units with 1/2-inch (13 mm) airspace and two 1/4-inch (6 mm) lites**

Outdoor Lite: Coating if Any (Surface) Glass	Glass Type +	Indoor Lite: Coating if Any (Surface) Glass	Visible Light Transmittance (VLT) %	Visible Light Reflectance		(BTU/hr°ft <sup>2</sup> °F) NFRC U-Value		Solar Heat Gain Coefficient (SHGC)	Color Rendering Index (CRI)
				Exterior %	Interior %	Winter Nighttime	Winter Argon		

**Sungate ThermL™ U-Value Enhancing Low-e Glass**

Solarban® 60 (2) Clear + Sungate ThermL™ (4) Clear	69	10	11	0.23	0.20	0.38	95
Solarban® 60 (2) Acuity® + Sungate ThermL™ (4) Acuity®	71	11	11	0.23	0.20	0.40	97
Solarban® 60 (2) Starphire® + Sungate ThermL™ (4) Starphire®	73	11	11	0.23	0.20	0.41	98
Solarban® 65 (2) Clear + Sungate ThermL™ (4) Clear	68	14	14	0.23	0.20	0.34	96
Solarban® 65 (2) Acuity® + Sungate ThermL™ (4) Acuity®	71	14	14	0.23	0.20	0.35	98
Solarban® 65 (2) Starphire® + Sungate ThermL™ (4) Starphire®	72	14	14	0.23	0.20	0.36	99
Solarban® 70 (2) Clear + Sungate ThermL™ (4) Clear	63	13	13	0.23	0.19	0.27	91
Solarban® 72 (2) Acuity® + Sungate ThermL™ (4) Acuity®	65	13	13	0.23	0.19	0.27	94
Solarban® 72 (2) Starphire® + Sungate ThermL™ (4) Starphire®	66	13	13	0.23	0.19	0.27	95
Solarban® 90 (2) Clear + Sungate ThermL™ (4) Clear	50	12	18	0.23	0.20	0.23	92
Solarban® 90 (2) Acuity® + Sungate ThermL™ (4) Acuity®	52	12	18	0.23	0.20	0.23	94
Solarban® 90 (2) Starphire® + Sungate ThermL™ (4) Starphire®	52	12	18	0.23	0.20	0.22	95
Solarban® R67 (2) Clear + Sungate ThermL™ (4) Clear	52	19	15	0.23	0.20	0.28	92
Solarban® R67 (2) Starphire® + Sungate ThermL™ (4) Starphire®	55	20	15	0.23	0.20	0.29	95
Solarban® R67 (2) Acuity® + Sungate ThermL™ (4) Acuity®	55	19	15	0.23	0.20	0.29	93
Solarban® R77 (2) Clear + Sungate ThermL™ (4) Clear	46	25	15	0.23	0.20	0.40	94
Solarban® R77 (2) Starphire® + Sungate ThermL™ (4) Starphire®	48	26	15	0.23	0.20	0.25	98
Solarban® R77 (2) Acuity® + Sungate ThermL™ (4) Acuity®	48	26	15	0.23	0.20	0.25	95
Solarban® R100 (2) Clear + Sungate ThermL™ (4) Clear	41	32	12	0.23	0.20	0.22	93
Solarban® R100 (2) Starphire® + Sungate ThermL™ (4) Starphire®	43	33	13	0.23	0.20	0.23	93
Solarban® R100 (2) Acuity® + Sungate ThermL™ (4) Acuity®	42	33	13	0.23	0.20	0.23	91
Solarban Champagne™ (2) Clear + Sungate ThermL™ (4) Clear	43	26	10	0.23	0.20	0.24	90
Solarban Champagne™ (2) Starphire® + Sungate ThermL™ (4) Starphire®	46	27	11	0.23	0.20	0.25	93
Solarban Champagne™ (2) Acuity® + Sungate ThermL™ (4) Acuity®	45	27	11	0.23	0.20	0.25	92

All performance data calculated using LBNL Window 7.8 software and represents center of glass performance data. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit vitroglazings.com or request our Architectural Glass Catalog.

Sungate ThermL™ glass can also be paired with a variety of tinted substrates to lower U-Values without compromising its aesthetics.

### Sustainability

All Vitro Architectural Glass Products meet US GSA Low-Embodied Carbon standards.

Vitro is the **first** U.S. glass manufacturer to have its entire collection earn **Cradle to Cradle Certified®** recognition and **first** North American glass manufacturer to publish **Environmental Product Declarations (EPDs)** for Flat and Processed Glass Products.



EPD  
Environmental  
Product Declaration



LEC  
Low Embodied  
Carbon



For more information visit [vitroglazings.com](http://vitroglazings.com),  
or call 1-855-VTRO-GLS (887-6457).

To order samples, visit [samples.vitroglazings.com](http://samples.vitroglazings.com)



Solarban® 60 (2) Clear + Sungate ThermL™ (4) Clear Glass

### Project

UC San Diego Torrey Pines Living & Learning Neighborhood | La Jolla, California | Solarban® 70 Glass  
Architect: HKS Architects, Safdie Rabines Architects | Glass Fabricator: Glasswerks NWI  
Glazing Contractor: Tower Glass, Inc. | General Contractor: Clark Construction Group | Photographer: Tom Harris

Sungate ThermL™ glass by Vitro is neutral, colorless and provides low reflectivity while offering remarkable thermal performance similar to Solarban® 70 glass by Vitro shown on the UC San Diego Torrey Pines Living & Learning Community.