

Aesthetic Description

Rich color and subtle reflectivity are combined in **Vistacool™ Solargray®** glass, a new architectural glass from PPG.

Vistacool Solargray, the newest addition to the expanding PPG collection of **Vistacool™** glasses, features a soothing light gray tint that transmits visible light more effectively than other reflective gray glasses do. The result is a softly reflective glass that maintains the moderate light transmittance inherent in gray glass, but also delivers the benefits of higher visible light and its related energy savings.

Vistacool Solargray is unique among architectural glasses for two reasons. The first is the proprietary **Vistacool** coating, a color-neutral, second surface coating that transmits comparatively higher levels of daylight, but also enriches the cool light gray tone of the **Solargray®** substrate underneath. This produces a bright, color-neutral appearance inside the building, together with a sharp, crisp exterior aesthetic.

The second reason is the distinct niche **Vistacool Solargray** glass occupies on the architectural glass spectrum. This is best demonstrated by comparing the relationship of Transmittance and Reflectance in **Vistacool Solargray** glass to other gray reflective glasses, as illustrated in the chart (right). This chart shows that, while levels of reflectivity vary greatly among gray reflective glasses, none have the high visible light transmittance of **Vistacool Solargray** glass. This unusual combination of characteristics makes **Vistacool Solargray** glass different from any other reflective architectural glass on the market.

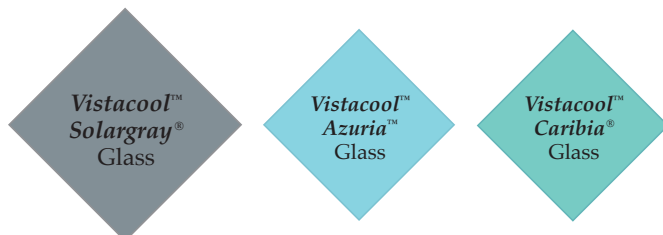
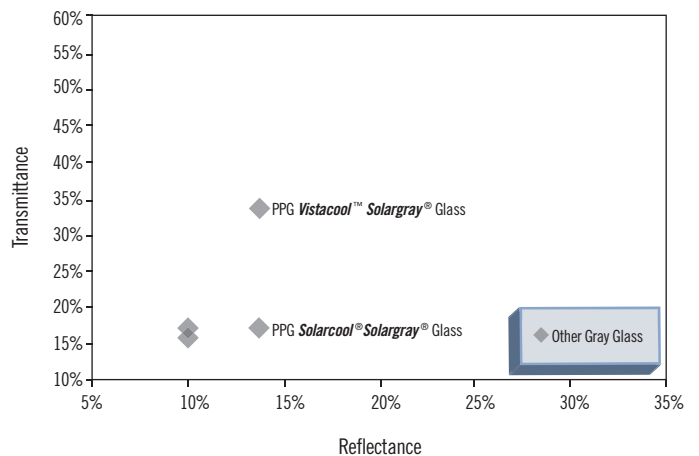
Performance Characteristics

Architects can extend the range of performance options associated with **Vistacool (2) Solargray** glass by combining it with **Sungate®** 500 Low-E glass, or **Solarban®** 60 and **Solarban®** 70XL Solar Control Low-E glasses. In a one-inch insulating glass unit, **Vistacool Solargray** glass and **Sungate** 500 produce a Solar Heat Gain Coefficient (SHGC) of 0.35 while maintaining Visible Light Transmittance of 29 percent. With **Solarban** 60 glass, the SHGC is an impressive 0.28, and 0.20 with **Solarban** 70XL glass. Visible Light Transmittance is 27 with **Solarban** 60 glass and 24 percent with **Solarban** 70XL glass.



Vistacool™ (2) Solargray® glass from PPG offers subtle reflectivity and an elegant light-gray tint without sacrificing visible light performance. The Vistacool coating not only transmits higher levels of daylight, but due to its color neutrality, also serves to amplify and enrich the tint of the Solargray glass substrate underneath, creating a crisp, clean, pristine exterior aesthetic.

**Relationship of Transmittance and Reflectance
Current Reflective (6mm) Tinted Glass Products**



Vistacool™ SOLARGRAY®

Subtly Reflective, Color-Enriched Glass



Vistacool™ Solargray® glass (right) features a new softly reflective, color-neutral coating technology from PPG that enriches color, but without the mirror-like finish of traditional reflective glasses such as Solarcool Gray glass (left). In addition to saturating the cool, light-gray color of Solargray® glass, the Vistacool™ coating also allows Vistacool Solargray glass to transmit higher percentages of daylight and appear less reflective than other reflective coated glass products.

Fabrication

Vistacool Solargray glass provides maximum processing flexibility and can be easily laminated, tempered or heat-strengthened to satisfy increased strength or safety glazing requirements. With its pyrolytic or “hard coat” coating, Vistacool Solargray glass is durable and readily available for rapid job-site delivery from nearly 100 glass fabrication locations throughout the U.S. and Canada. It is also available through international representatives in 25 countries.

Additional Resources

Vistacool Solargray glass is just one of the **EcoLogical Building Solutions™** from PPG. For more information, or to obtain samples of Vistacool Solargray glass, call 1-888-PPG-IDEA or visit www.ppgideascpes.com.



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Vistacool™ Solargray® Glass Performance — Commercial Insulating Glass Unit and Monolithic Comparisons

Glass Type	Transmittance			Reflectance		U-Value (Imperial)		K-Value (Metric)		Shading Coefficient	Solar Heat Gain Coefficient	Light to Solar Gain (LSG)
	Ultra-violet %	Visible %	Total Solar Energy %	Visible Light %	Total Solar Energy %	Winter Night-time	Summer Day-time	Winter Night-time	Summer Day-time			
Monolithic (6mm)												
VISTACOOL SOLARGRAY	20	34	35	11	8	1.02	0.92	5.80	5.23	0.47	0.52	0.65
Insulating Vision Unit Performance 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch lites; interior lite clear												
VISTACOOL SOLARGRAY	17	31	28	12	9	0.47	0.50	2.67	2.84	0.47	0.40	0.77
SUNGATE® 500 Low-E Glass (3)												
VISTACOOL SOLARGRAY + LOW-E	14	29	23	12	10	0.35	0.35	1.99	1.99	0.41	0.35	0.83
SOLARBAN® 60 Solar Control Low-E Glass (3)												
VISTACOOL SOLARGRAY + LOW-E	7	27	14	11	15	0.29	0.27	1.65	1.53	0.28	0.24	1.13
SOLARBAN® 70XL Solar Control Low-E Glass (3)												
VISTACOOL SOLARGRAY + LOW-E	2	24	10	11	17	0.29	0.27	1.65	1.53	0.24	0.20	1.22

Notes: All IG data for 1/2"-air space with air (not argon). Vistacool coated glass is recommended for use only on the 2nd, 3rd or 4th surface of standard architectural insulating glass applications. When used in architectural applications as a monolithic lite, the Vistacool coating is to be glazed to the interior of the structure, 2nd surface.

Performance data calculated using LBL Window 5.2. For detailed information on the methodologies used to calculate the aesthetic and performance values in this table, please visit www.ppgglazing.com or request our Architectural Glass Catalog.

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