Vistacool™ AZURIA™

Subtly Reflective, Color-Enriched Glass

PPG IdeaScapes™
Glass • Coatings • Paint

Aesthetic Description

With the advent of sustainable design and its emphasis on daylighting, architects are looking for architectural glasses that offer high levels of visible light transmittance along with a more understated look than the mirror-like appearance of traditional reflective glass. With the introduction of ***Vistacool™ Azuria™*** glass, those desires have finally been met.

Vistacool™ (2) Azuria™ is a subtly reflective, color-enriched glass that marks the introduction of an entirely new product category in the architectural glass industry.

While ***Vistacool (2) Azuria*** offers an unprecedented combination of soft reflectivity and light transmittance, its greatest appeal might be its stunning visual characteristics. With an exceptionally rich and lustrous aqua-blue, ***Vistacool Azuria*** has a comfortably bright neutral appearance on both the interior and exterior of the glass.

This is a direct result of the second-surface-only ***Vistacool*** coating, which not only transmits high levels of daylight, but, due to its color neutrality, also serves to amplify and enrich the tint of the glass substrate underneath, creating a crisper, cleaner and more pristine exterior aesthetic. The glass' soft reflectivity also makes it ideal for harmonizing vision glass with non-vision spandrel glass, creating a more monolithic appearance.

The unique place of ***Vistacool Azuria*** on the architectural glass spectrum is best demonstrated by reviewing the relationship of Transmittance and Reflectance in comparison with other reflective glasses.

This is illustrated in the chart (right), which shows that levels of outdoor reflectivity vary significantly among reflective glasses, but that none have the high visible light transmittance of ***Vistacool Azuria***. As a result of its exclusive combination of these characteristics, ***Vistacool Azuria*** occupies a rare niche among reflective architectural glasses.

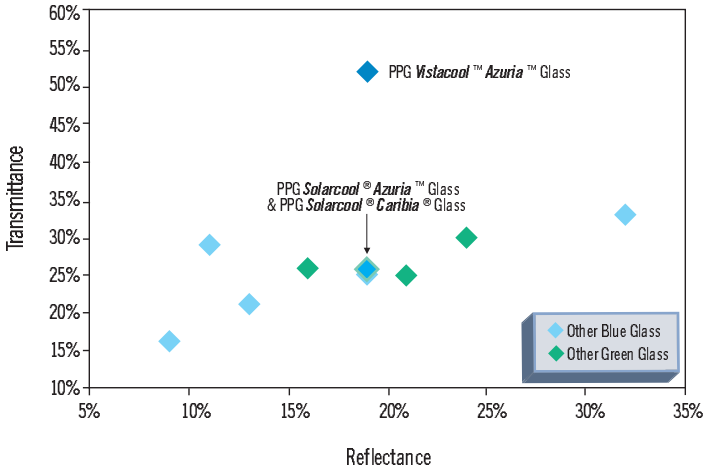
Performance Characteristics

Architects who want both the visual characteristics of ***Vistacool Azuria*** and higher emmissivity can combine ***Vistacool (2) Azuria*** with ***Sungate®*** 500 Low-E glass or ***Solarban®*** 60 Solar Control Low-E glass in a one-inch insulating glass unit. This produces Solar Heat Gain Coefficients (SHGC) of 0.29 and 0.26, while maintaining high levels of visible light transmittance.

*Other **Vistacool** glass products coming in 2006*

***Vistacool** (2) **Azuria** offers an unprecedented combination of subtle reflectivity and visible light transmittance, along with an exceptionally rich and lustrous aqua-blue sheen. The **Vistacool** coating not only transmits high levels of daylight, but, due to its color neutrality, also serves to amplify and enrich the tint of the **Azuria** glass substrate underneath, creating a crisper, cleaner and more pristine exterior aesthetic.*

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



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

Fabrication

Vistacool Azuria 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 Azuria*** glass is durable and readily available for rapid job-site delivery from nearly 100 glass fabrication locations throughout the U.S. and Canada.

Additional Resources

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

PPG *IdeaScapes*.™ Integrated products, people and services to inspire your design and color vision.

Vistacool™ (2) *Azuria*™ Glass Performance — Commercial Insulating Glass Unit and Monolithic Comparisons

Glass Type	Transmittance			Reflectance		U-Value (Imperial)		K-Value (Metric)		Shading Coeffi-cient	Solar Heat Gain Coeffi-cient	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 AZURIA	35	52	26	19	10	1.02	0.92	5.78	5.27	0.52	0.45	1.16
Insulating Vision Unit Performance 1-inch (25mm) units with 1/2-inch (13mm) airspace and two 1/4-inch lites; interior lite clear												
VISTACOOL AZURIA	29	47	22	21	11	0.47	0.50	2.67	2.84	0.39	0.34	1.39
***SUNGATE*® 500 Low-E Glass (3)**												
VISTACOOL AZURIA + LOW-E	24	44	19	22	11	0.35	0.35	1.99	1.99	0.34	0.29	1.52
***SOLARBAN*® 60 Solar Control Low-E Glass (3)**												
VISTACOOL AZURIA + LOW-E	11	42	16	20	11	0.29	0.27	1.65	1.53	0.30	0.26	1.62

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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