



PRODUCT DATA SHEET

ACRYLIC SHEET PERFORMANCE VALUES



UPDATED APRIL 2022

Acrylic Sheet Performance Values

U-Factor vs. R-Value

The biggest difference between ¹U-Factor & R-Value is that U-factor measures the rate of heat transfer (loss) while R-Value measures the resistance to heat loss. R-Value is a measure of conductance & resistance. A product with high conductance will conduct heat quickly, like a hot pan on the stove or a single pane of glass on a cold day. U-factor, on the other hand, takes into account more than conductance. It also is affected by the airflow (convection) around the skylight and the emissivity (radiated or reflected heat) of the glazing.

¹**U-Factor:** measures how well a product prevents heat from escaping a home or building. U-Factor ratings generally fall between 0.20 & 1.20. The lower the value, the better a product is at keeping heat inside the building. This is typically important during the winter heating season in colder climates.

Glazing Options & Related Visible Light & Solar Heat Gain Transmittance

Glazing Options

All Artistic Skylights are available with either dome, pyramid, or flat glass glazing. Acrylic glazing is available in three colours:

- 1. Clear** - recommended when maximum amount of light is desired.
- 2. Bronze 2412** - transparent material used to reduce interior solar heat gain, control glare, and prevent bleaching of interior furnishings while permitting clear vision to exterior.
- 3. White 2447** - translucent material used for light diffusion, reduced heat and glare, and privacy.

Related Visible Light & Solar Heat Gain Transmittance

Glazing	U-Value (Winter Nighttime)		VLT		SHGC	
	Dual Glaze	Triple Glaze	Dual Glaze	Triple Glaze	Dual Glaze	Triple Glaze
Clear	.70	.50	86%	81%	.77	.73
Bronze 2412	N/A	N/A	50%	45%	.48	.44
White 2447	N/A	N/A	48%	45%	.50	.46

* Values Based on glazing paired with clear glazing.

** Values from ASHRAE Handbook of fundamentals.

*** Material thickness not listed, assume .177"



Special Acrylic Colours

- A wide range of transparent and translucent acrylic colours are available upon request.
- Consult with Artistic Skylights for special acrylic colours.



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