

## Product Description

The **PolarSkin™** is a snap-on window insulation panel that increases thermal resistance to reduce conductive heat transfer at the window. **PolarSkin's** controlled air gap optimizes the insulation gap between the existing window and **PolarSkin**, resulting in improved window energy performance. **PolarSkins** keep the heat inside in winter and outside in summer. **PolarSkins** are individually manufactured to fit each unique window and are part of the **WexWindow** family of products.

## Product Classification

**PolarSkin** meets CLASS A criteria required for interior wall and ceiling finish materials under the International Building Code® (IBC), NFPA 1-1: Life Safety Code® (NFPA 1010), and NFPA 5000: Building Construction and Safety Code® (NFPA 5000). This determination is based on ASTM E84 test results performed by Intertek.<sup>1</sup>

## Glazing Performance: Improvement to Thermal Insulation

Existing Prime Window:	Air-filled Double Pane + PolarSkin <sup>2</sup>	Single Pane with Storm + PolarSkin <sup>3</sup>	Single Pane + PolarSkin <sup>3</sup>
<b>PolarSkin</b> High-Profile <sup>4,5</sup>	38%	~40%	~56%
<b>PolarSkin</b> Low-Profile <sup>4,5</sup>	36%	~36%	~54%

## PolarSkin Product Specs

	Visible Light Transmittance <sup>6</sup>	Emissivity <sup>7</sup>
<b>PolarSkin</b>	0.91	0.80

## Window Operability

**PolarSkin** allows emergency egress through the window. Windows and window treatments will open and close, just as they did before **PolarSkins** were installed. **PolarSkin** installations allow buildings to remain in compliance with Building Code.

## Custom Fit - Easy to Measure and Install

**PolarSkins** are individually manufactured to fit each window. **PolarSkins** are dimensioned and mounted to the inside glass pane. Available in 1/16" increments. Fits rectangular windows: double-hung, sliders, casement, awning and fixed. No tools. No construction. No disruption.

Minimum window-pane dimension (height or width): 15". Maximum window-pane dimension (height or width): 60". Modular arrangements available. Larger dimensions coming in Q3-2023. Contact WexEnergy for more information.

## Materials

**PolarSkins** are made with polyester-based, GREENGUARD® Certified and Cradle-to-Cradle™ Certified materials. One of our key suppliers announced plans for advance recycling technology that will allow **PolarSkins** to be recycled into virgin material at end-of-cycle.

## Effective Useful Life

For **PolarSkins** in IECC Climate Zones 4-8. South facing single-pane windows: 20 years. North facing single- and double-pane windows: 50+ years. **PolarSkin** is designed to be tamper resistant.

## Footnotes

<sup>1</sup> Intertek Test Report No. M1880.01-121-24, issued 4/7/2021.

<sup>2</sup> NRFC 102-2020 results, Intertek. Intertek reports available upon request.

<sup>3</sup> Calculated based on **PolarSkin** R-value derived from NFRC 102-2020 results for air-filled double pane prime window. Intertek report available upon request.

<sup>4</sup> High-Profile **PolarSkin** requires at least 0.625 inch clearance for installation on operable sliding windows. Low-Profile **PolarSkin** requires at least 0.375 inch clearance for installation on operable sliding windows.

<sup>5</sup> **PolarSkin** R-Values for High Profile and Low Profile are 1.2 and 1.1, respectively based on independent testing by Intertek using NFRC 102-2020 protocols. Intertek reports are available upon request.

<sup>6</sup> Visible Light Transmittance (VLT) measures how much light comes through the center of the product when mounted on a window. A higher value, from 0 to 1.0, means the product transmits more daylight

<sup>7</sup> Estimated from <https://www.sciencedirect.com/science/article/pii/S0378778818336004>.