

Specialty Glass Products Technical Reference Document

7/12

Soda-Lime

Low Emissivity (Low-E) Glass

Description

Low Emissivity (Low-E) glass provides excellent performance in situations where temperature separation is desired. Low-E is used to help meet energy efficiency requirements by blocking UV light and providing heat insulation. This is done with a special thin-film metallic or oxide coating which prevents the passage of short-wave solar energy into a building and also prevents long-wave energy produced by heating systems and lighting from escaping outside.

Features

- Higher window U-value
- Increased insulation performance
- Energy savings
- Decreases color fade on interior furniture by blocking UV light

Applications

- Architecture
- Grocery store refrigerators
- Deli food windows

Physical Properties

- | | |
|---|------|
| • Visible Light Transmission | 76% |
| • SHGC (Solar Heat Gain Coefficient) | 0.71 |
| • LSG (Laminated Safety Glass) | 1.07 |
| • U-Factor (Btu/hr/ft ² /°F) | |
| • Air | 0.35 |
| • Argon | 0.31 |
| • Indoor glass temp (°F) | |
| • Winter | 52 |
| • Summer | 99 |
| • UV Transmission | 49% |

Dimensions

- Thicknesses: 3.2 mm, 5.0mm
- Sizes: Up to 96" x 60" and Up to 130" x 72"