IceBlue

COOLER. CLEARER. SMARTER

Marketing Team

April 2026

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Background

Challenge

Excess
Solar Heat

Traditional clear glass allows excessive solar heat into the space, increasing cooling loads and reducing comfort.

Market Demand

Modern Performance
Expectations

Modern vehicles and buildings demand:
- Greater thermal comfort
- Lower energy consumption
- Bright spaces

Performance Requirements

What Glass
Must Deliver

- Infrared (IR) Heat Reduction
- Ultraviolet (UV) Protection
- High Visible Light Transmission (VLT)

Solution

IceBlue
Solar Control, Without Compromise

Laminated Windshield with **IceBlue**

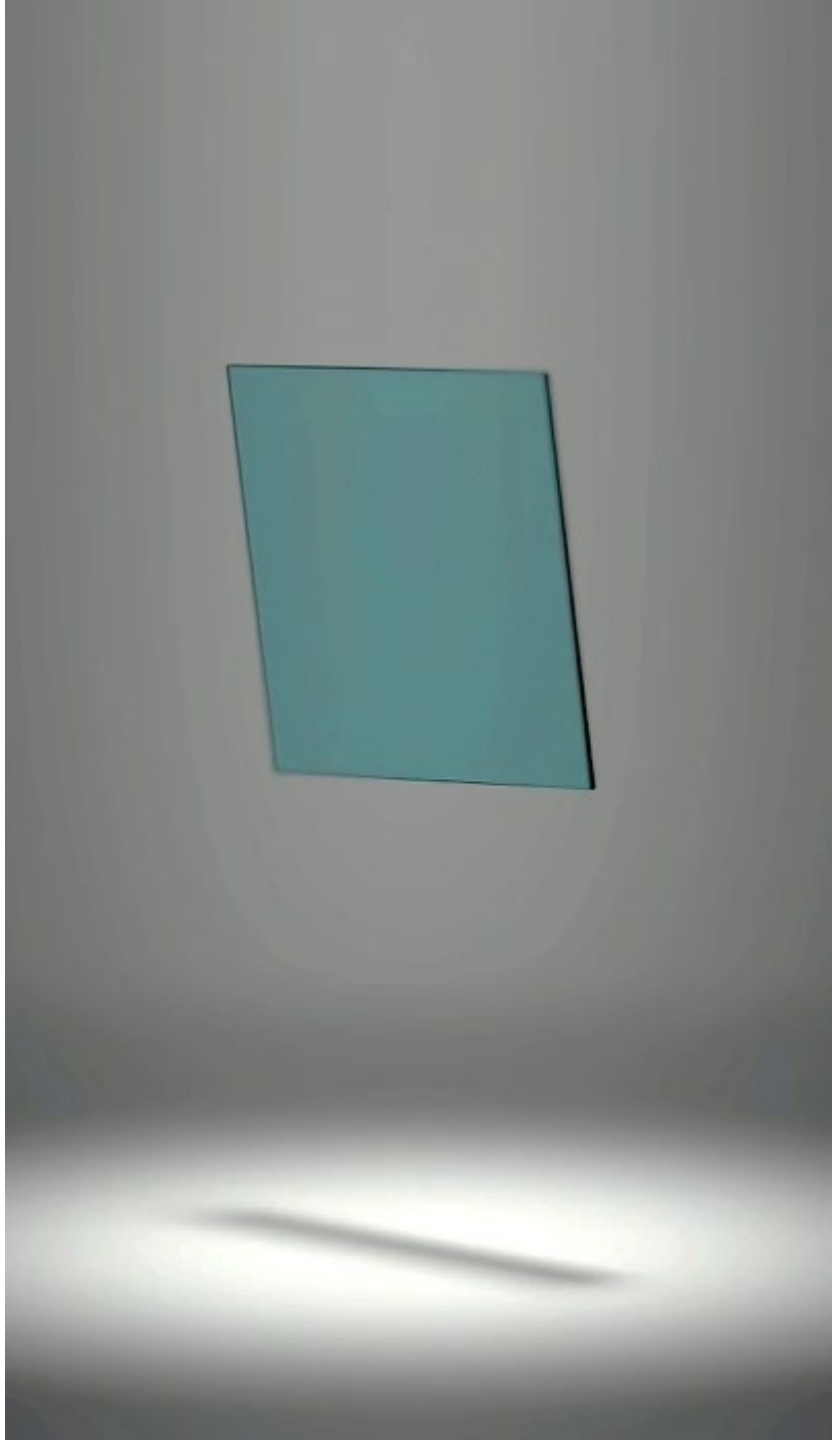
- IR Reflectivity ≥ **87.50%**
- VLT ≥ **70%**

Key Benefits

Infrared (IR) Heat Reduction
To create cooler, more comfortable interior environment

Ultraviolet (UV) Protection
To help protect skin and interior materials from fading

High Visible Light Transmission (VLT)
To meet daylighting requirements for brighter spaces



Product Development

IceBlue is the result of extensive formulation testing and performance optimization.

Advanced Iron-State Control

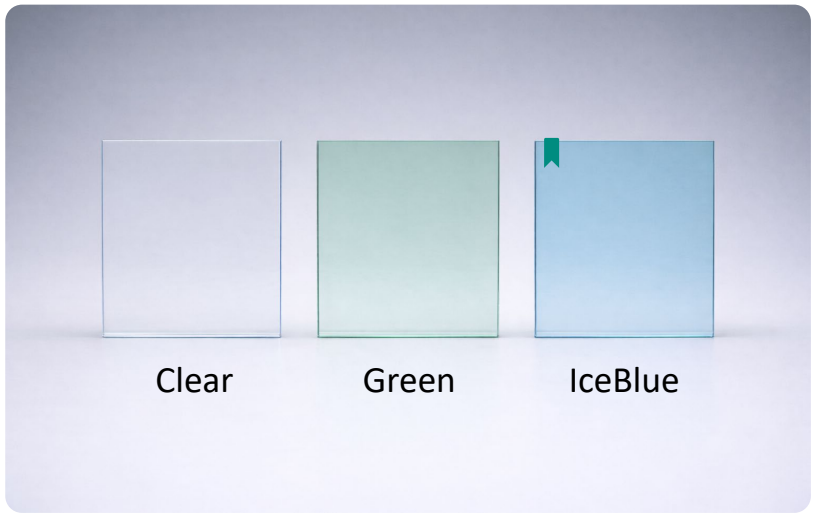
Optimized Glass Chemistry

Precision Melting Conditions

Why IceBlue

1 High Light-To-Heat Ratio | 2 Advanced Technology | 3 Low Carbon Life

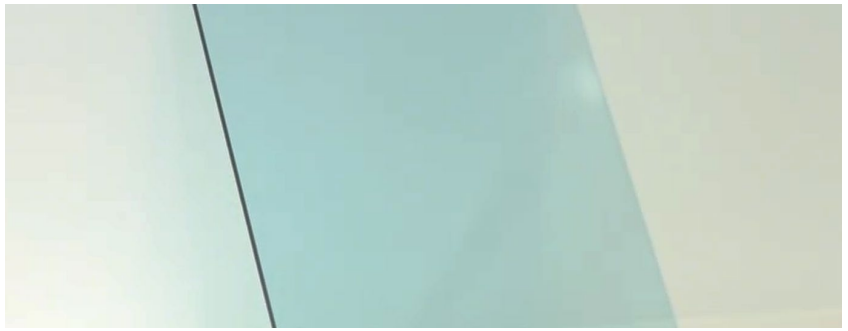
- While many solar-control glass sacrifice brightness for heat reduction, IceBlue balances performance for demanding applications in modern days.
- IceBlue is engineered to maximize visual light while minimizing heat transmission.
- It has been tested and proven to present better performance, compared to the conventional clear glass and green glass.



Why IceBlue

1 High Light-To-Heat Ratio | 2 Advanced Technology | 3 Low Carbon Life

- IceBlue does not depend on coatings. It inherently has heat insulation capability, ensuring stable and long-lasting performance throughout its cycle life.
- In the meantime, coated glass relies on multiple metal layers applied to the surface. These layers are prone to aging over long-term use, leading to performance degradation.



1 High Light-To-Heat Ratio | 2 Advanced Technology | 3 Low Carbon Life

- IceBlue gives opportunity to embrace low carbon life by reducing the needs of air conditioning.
- It aligns with global trends of low-carbon policies for greener future.

Applications

Applications

All automotive windows including -

- Windshields
- Side glass
- Rear glass
- Roof glass

Benefits

Lower cabin heat buildup
Reduced air conditioning load
Improved passenger comfort
Protection for interior durability
Driving clarity

Comparison

Makeup	VTL (%)	Solar (%)			TUV	TIR
	T	T	R	A		
2mm Clear + 0.76 PVB + 2mm Clear	88.9	74.5	5.7	19.8	0.7	77.0
2mm Green + 0.76 PVB + 2mm Green	78.8	53.0	6.0	41.0	0.5	34.0
2mm IceBlue + 0.76 PVB + 2mm IceBlue	75.5	40.7	6.2	53.1	0.5	15.9

VTL - T (Transmission): Percentage of visible light transmitted **Solar - T** (Solar Transmission): Percentage of total solar energy transmitted **Solar - R** (Solar Reflectance): Percentage of total solar energy reflected **Solar - A** (Solar Absorptance): Percentage of solar energy absorbed by glass **TUV** (Ultraviolet Transmission): Percentage of UV passing through, Lower = better UV protection **TIR** (Infrared Transmission): Percentage of IR (heat energy) passing through, Lower = better heat rejection

Summary

IceBlue

COOLER. CLEARER. SMARTER

Offering

Greater thermal comfort
Lower energy consumption

Supported by

Infrared (IR) Heat Reduction
Ultraviolet (UV) Protection
High Visible Light Transmission

Thank You

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