



Transparent glass-ceramic offering the purest view of the flames.



Withstands temperature levels up to 700°C (1292°F) in continuous use.



Melted in Bagneaux-sur-Loing facility, France, located one hour from Paris.



Required for greater safety or thermal resistance than traditional glass.

KeraLite® is a high-performance transparent glass-ceramic produced through a proprietary manufacturing process. It offers outstanding mechanical durability and thermal resistance, meeting the demands of domestic heating appliances such as fireplaces, freestanding stoves, and inserts.

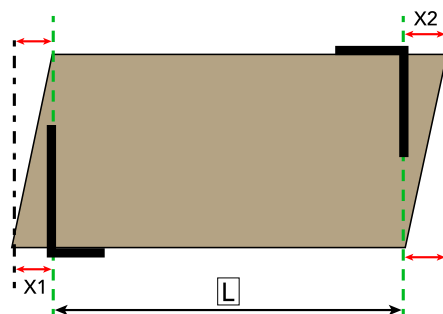
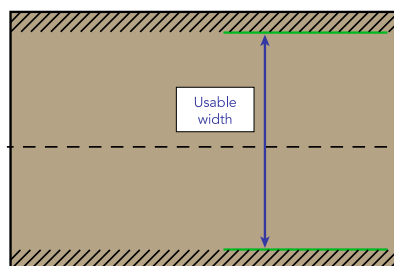
Geometrical characteristics

Definition of usable width :

The usable width is measured from the center of the sheet. This area complies with EuroKera's quality specification. The area outside the usable width is a result of the rolling process and is intended to be removed.

The sheets are sold as cut :

- Usable length : From 1750 to 2000 mm
- Usable width : From 700 to 1170 mm
- Squareness tolerance (max) : 10 mm
($X1$ and $X2 \leq 10$ mm)
- Thickness : - 4.0 mm (nominal) ± 0.3 mm
- 5.0 mm (nominal) ± 0.3 mm
- Flatness tolerance :
0.3% of the usable diagonal length
(measured on the sheet laying on a marble table)



In addition to sheets, EuroKera manufactures viewing windows of custom dimensions based on your dimensional requirements. Viewing windows may be customized within the dimensions above.

Three different edge profiles are available: Pencil (C-shaped), Flat, or Swiped.

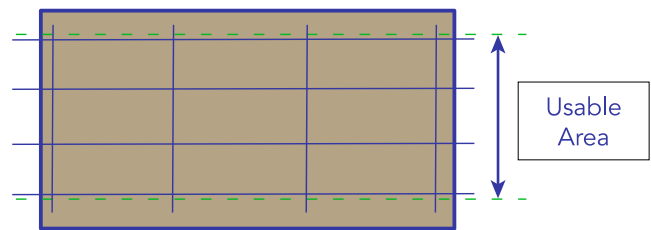
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NOTE: Information in this document reflects standard specification. Do not hesitate to consult us for any special request.

www.eurokera.com

Appearance characteristics

- Each sheet is carefully reviewed by positioning it in front of a light source from a distance of 1 meter, allowing a clear evaluation of its visual characteristics and ensuring consistent quality.
- The usable area of the glass-ceramic is divided into 9 segments when evaluating quality levels.
- The sheet is designated as B quality if inclusions and other defects are found in up to 4 segments.
- Some defects and features that cannot be precisely measured are compared to visual limit samples that represent the maximum permissible level.



BUBBLES

Bubbles are distributed within the glass-ceramic at varying depths and are evaluated based on their potential to cause optical deformation.

- ⇒ Bubble with deformation, only allowed for Quality B.
- ⇒ Bubble with no deformation – see table below :

Length	Quality A	Quality B
≤ 1 mm	OK	/
> 1 mm to ≤ 2 mm	12	> 12
> 2 mm to ≤ 4 mm	4*	> 4 or d < 500 mm
> 4 mm	0	≥ 1

*The distance (d) between defects must be > 500mm

SOLID INCLUSIONS

Foreign particles with a slightly white appearance may be distributed within the glass-ceramic at varying depths.

Solid inclusions, regardless of size, are permitted only in Quality B.

INLAYS

Small, rounded surface depressions, most of which do not contain embedded particles.

- ⇒ Quality A : The distance between two defects with size ≤ 1 mm must be > 500 mm.
- ⇒ Quality B : Defect size > 1 mm and distance between < 500 mm (maximum density based on gauge).

STAINS

A diffuse, semi transparent halo visible on the glass ceramic surface.

- ⇒ Stain allowed if length ≤ 2 mm.
The distance between two defects must be > 500 mm.
- ⇒ Quality B : length > 2 mm.

SCRATCHES

Whitish, elongated surface marks caused by abrasion from contact with a hard material.

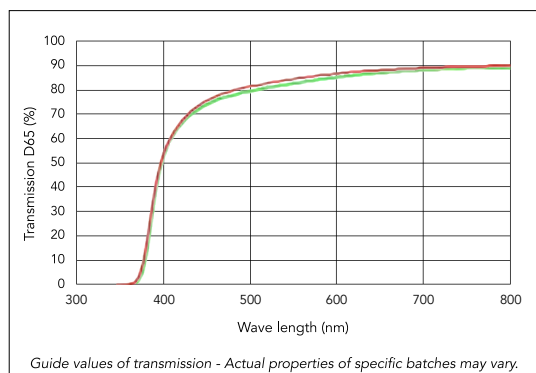
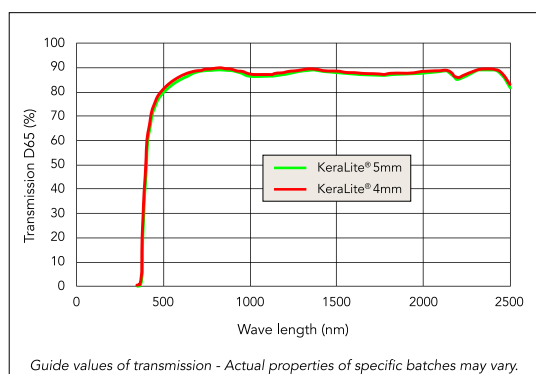
Handling scratches allowed if length ≤ 2.5 mm.

MISCELLANEOUS APPEARANCE DEFECTS

Appearance defects not specified in this document shall be evaluated by comparison with the most similar defined defect.



Physical properties



GLASS-CERAMIC PROPERTIES	UNITS	VALUE
Mechanical		
Density	g/cm ³	2.58
Young's Modulus E	GPa	94
Torsion Modulus G	GPa	37
Poisson's Ratio		0.25
Minimum mechanical bending strength	MPa	110
Knoop Hardness		600
Thermal		
CTE (20-700°C)	10 ⁻⁷ .K ⁻¹	0 ± 3.0
Specific Heat (20-100°C)	J/g.K	0.9
Resistance to Thermal gradients	°C	ΔTmax = 700
Resistance to Thermal shock	°C	ΔTmax = 700
Maximum temperature for continuous use	°C	700
Chemical		
Hydrolytic resistance DIN 12111		HGB1
Acid resistance DIN 12116		Class 3
Alkali resistance ISO 695		Class 1
Sustainability		
Recyclable Arsenic Free		

▷ Minor variations from the stated values may occur but will not affect product performance.

Instruction for Use :

- KeraLite® glass-ceramic is not a standard glass and must never be placed in standard glass recycling containers.
- Do not use KeraLite® for appliances using liquid fuel containing sulfur, such as domestic fuel oil.
- When cleaning, do not use strong alkalis, acids, fluoride-based detergents, abrasive cleaning tools, or solvents for cleaning.
- To prevent damage, handle the glass-ceramic using standard practices for window glass; avoid glass-to-glass contact and contact with metal or other hard materials.

KeraLite®
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