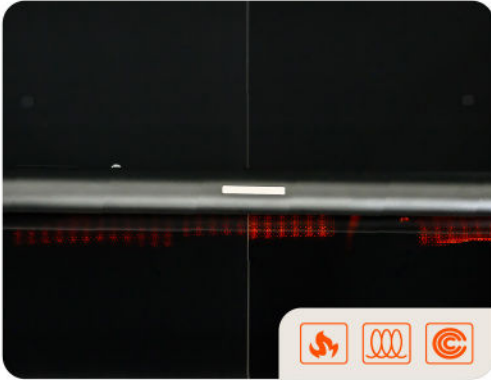


# KeraBlack® Ultra



Strong ability to **conceal electronic components beneath**.



**Deep black color** within the glass-ceramic material itself, delivering **enhanced visual aesthetics**.



Smooth, uninterrupted black surface **without the need for an additional black opacifying layer**.

Deep dark glass with an adapted formula designed to meet the aesthetic requirements of the market by making electronic components less visible.

## Standards

KeraBlack® Ultra meets the mechanical specifications defined by European and US standards EN 60335-1, EN 60335-2-6 and UL858.

This product is available with or without bottom surface texture (pebbles).



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**NOTE:** Technical specifications are available upon request.

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GLASS-CERAMIC PROPERTIES	UNITS	VALUE
<b>Mechanical</b>		
Density	g/cm <sup>3</sup>	2.54
Young's Modulus E	GPa	92
Torsion Modulus G	GPa	36
Poisson's Ratio		0.26
Knoop Hardness		600
Minimum mechanical bending strength	MPa	150
Minimum static load resistance (600 x 500mm - Thickness 4mm)	kg	100
Impact resistance: Norwegian Hammer EN60335-1 Pot drop EN60335-2-6 Ball drop/Pan drop UL 858		Pass
<b>Thermal</b>		
CTE (20-700°C)	10 <sup>-7</sup> .K <sup>-1</sup>	0 ± 1
Specific Heat (20-100°C)	J/g.K	0.9
Resistance to thermal gradients - thermal shock	°C	ΔTmax = 700
<b>Optical</b>		
Visible light transmission TLD65	%	0.6
<b>Electrical</b>		
Electrical resistivity log n at 250°C	Ω.cm	6.8
Electrical resistivity log n at 350°C	Ω.cm	5.4
Dielectric constant (1MHz, 25°C)		7.9
Loss tangent factor (1MHz, 25°C)		0.02
<b>Chemical</b>		
Hydrolitic resistance DIN 12111		HGB1
Acid resistance DIN 12116		Class 3
Alkali resistance DIN 52322		A1
<b>Sustainability</b>		
Recyclable	Arsenic-free process	Water-washable enamels*

\*Washable with water during the finishing process.

All data are based on typical values and are not intended as specifications.