StellaShine™
Specification Sheet

Nippon Electric Glass

The glass-ceramic offers exceptional thermal shock resistance, remaining intact even when cold water is poured onto it after being heated to 800℃. Its durability under repeated heating makes it ideal for cooktop plates. Available in a variety of colors, it also supports matte and gradient printing options.

Thermal Properties

StellaShine™ offers exceptional heat and thermal shock resistance, making it safe even during sudden temperature changes caused by boil-overs.
It is also suitable for use as a top plate for radiant heaters.

Glass type			N-0 (Transparent)	N-11 (White)
Coefficient of thermal expansion	$\times 10^{-7}$/K	30～380℃	-1	10
		30～750℃	1	12
Specific heat	J/kg・K	25℃	800	800
Thermal conductivity	W/m・K	25℃	1.6	1.6
Heat resistant temperature*	℃	Continuous	750	850
		Short term	850	950
Thermal shock resistant temperature**	℃	100×100×3mm plate	800	550

*Heat resistant temperature: The temperature at which a 100 × 300 × 3.8t mm specimen deflects by 1mm under its own weight after 1000 hours of continuous heating with a 280mm distance between fulcrum points, or after 24 hours of continuous short-term heating. To prevent potential discoloration of printed materials due to heating above 300℃, please ensure that the temperature does not exceed 300℃.
**Thermal shock resistance temperature: An approximate value determined through testing where a heated sample is rapidly cooled by immersion in water. This value may vary depending on the product's wall thickness and shape.

Mechanical Properties

StellaShine™ passes the pot drop test in accordance with JIS C 9335-2-6 (IEC 60335-2-6) and the impact hammer test in accordance with JIS C 9335-1 (IEC 60335-1).

Glass type			N-0 (Transparent)	N-11 (White)
Density	$\times 10^{3}$kg/m^{3}		2.5	2.5
Bending strength	MPa	JIS R 1601	170	220
Vicker's hardness Hv(0.2)			700	800
Young's modulus	GPa		94	86

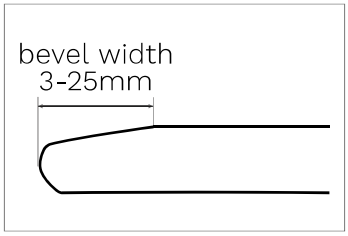
※The data included in this sheet are reference values and not guaranteed values.

Beveling

Both edge-line and non-edge-line types are available, with a supported bevel widths ranging from 3 to 25 mm.

edge-line type

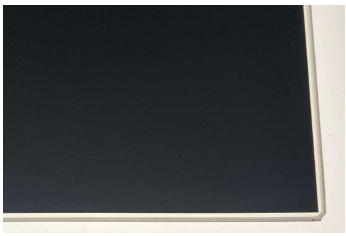
non-edge-line type



Silicone Barrier Properties

We conduct evaluations to ensure that no discoloration or delamination occurs under the specific silicone materials and adhesion conditions used by the customer.
If any such issues are observed, we will make appropriate adjustments to the coating or printing specifications to ensure optimal performance and compatibility.

Before adjustment



After adjustment

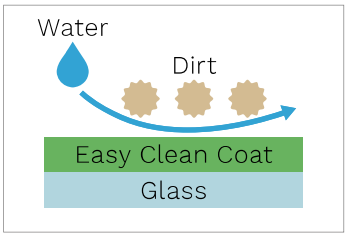
Hole Drilling

We support various hole shapes and configurations, including openings for gas stoves and ventilation ports for downdraft systems. Custom hole drilling is available to meet diverse design and functional requirements.

Easy Clean Coat (Option)

The Easy Clean Coat helps prevent scorching on the cooktop and makes it easier to remove any dirt that adheres to the surface.
This hydrophilic coating allows water to seep under the dirt, making it easier to clean.

Coated Uncoated



Eco-friendly

Free from harmful substances such as arsenic or antimony, this glass is environmentally safe.