

BOROFLOAT® 33 – Thermal Properties

The sum of its properties is what makes it unique.

BOROFLOAT® 33 from Germany is the world's first floated borosilicate flat glass. It combines superior quality and excellent flatness with outstanding thermal, optical, chemical and mechanical features. The chemical composition and physical values of BOROFLOAT® 33 are in accordance with ASTM E 438-92 (2001), Type 1, class A. Rediscover BOROFLOAT® 33 and experience the infinite potential of our most versatile material platform. BOROFLOAT® – Inspiration through Quality.



Thermally resistant oven door made with BOROFLOAT® 33.

Key benefits:

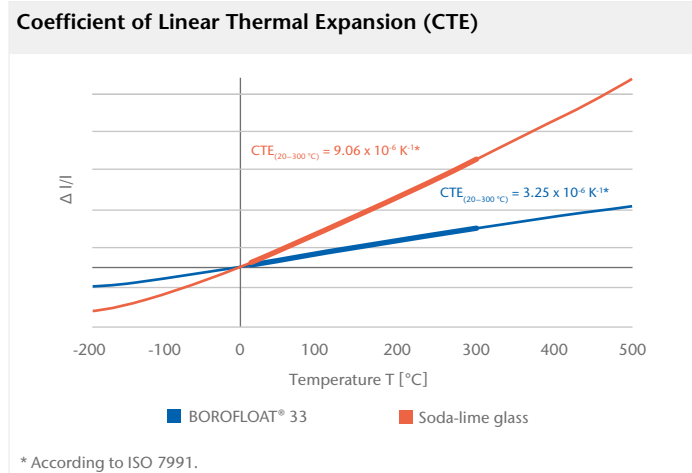
Outstanding thermal resistance

- Very good temperature stability
- Excellent resistance to thermal shock
- Can be thermally toughened
- Can be thermally shaped (3D)

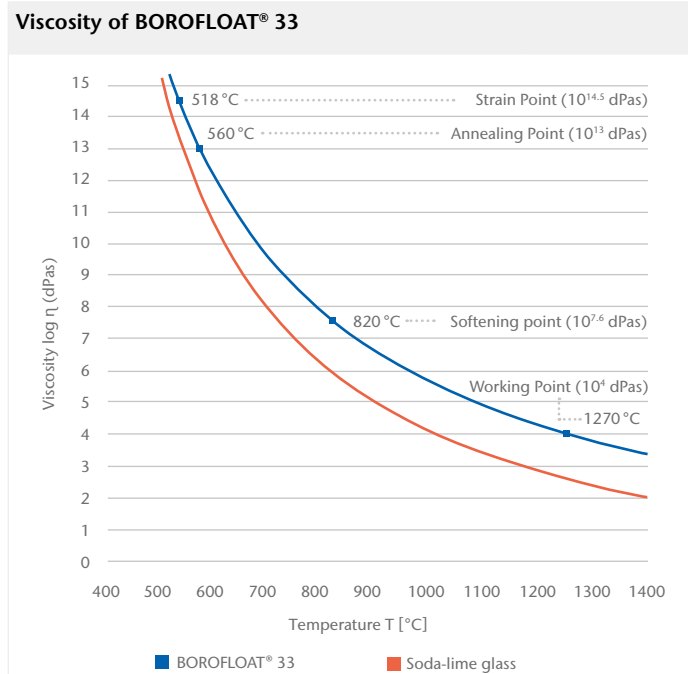
Thermal properties	
Specific heat capacity c_p (20–100 °C)	0.83 kJ/(kg·K)
Thermal conductivity λ (90 °C)	1.2 W/(m·K)
Transformation temperature T_g^* (according to ISO 7884)	525 °C

* Equivalent term: glass transition temperature.

Maximum Operating Temperature	
For short-term usage (< 10 h)	500 °C
For long-term usage (\geq 10 h)	450 °C



The CTE of BOROFLOAT® 33 is 3 times lower than the CTE of Soda-lime glass.



Further data and information available on request.

All values listed on the data sheet are not guaranteed reference values.

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