YP·DENTAL

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Dental Glass Ceramic Blocks

Anyang Yingpai Dental Material Co., LTD

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Enables efficient CAD/CAM processes and precise restoration

Dental glass ceramic blocks select high-quality raw material,with fine craftsmanship, fast and simple crystallization process, excellent bending strength and processability as well as excellent aesthetic restoration effect,becoming thefirst choice for CAD/CAM chairside material.

High transparency

High strength

Easy mill

Fast restoration

- Simple and fast process, convenient treatment for patients
- Rapid crystallization, the best choice for immediate restoration.
- High strength, suitable for various cases.
- High transparency, matching the natural color of the teeth.

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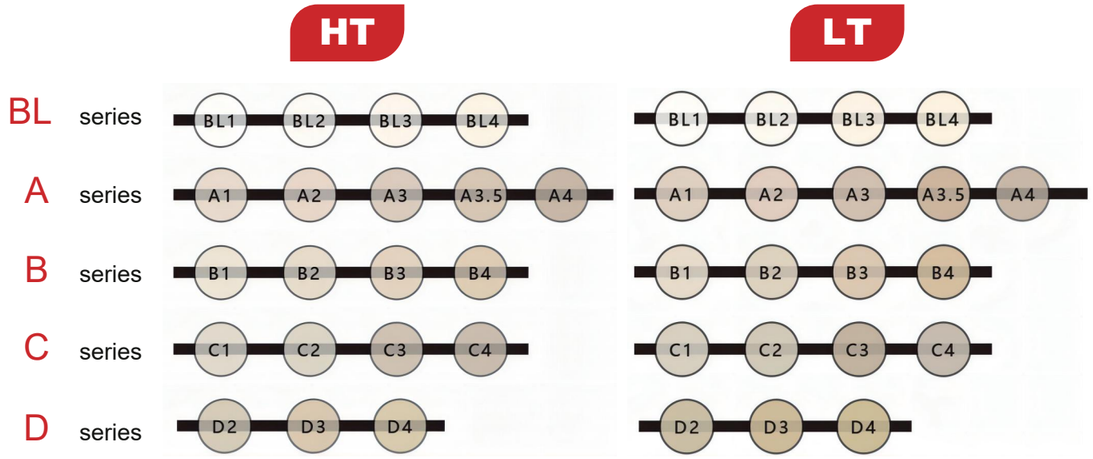
Transparency



Specification Classification

	Size(mm)	pcs/box
C14	18*15*13	5pcs
B40	40*15*15	4pcs

Types

Colors	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	BL1	BL2	BL3	BL4	OM1	OM2	OM3
HT（C14）	•	•	•	•	•	•	•			•	•						•	•	•	•	•	•	•
LT（C14）	•	•	•	•	•	•	•			•	•			•	•		•	•	•	•	•	•	•
HT（B40）	•	•	•	•	•	•	•			•	•						•	•	•	•	•	•	•
LT（B40）	•	•	•	•	•	•	•			•	•			•	•		•	•	•	•	•	•	•

Homogeneity

- Smooth surface
- Uniform color
- No impurities and foreign matter

Bending strength

The average biaxial bending strength of crystallized YPDENTAL glass ceramics is 637Mpa,which is higher than the standard strength value set by ISO 6872:2008 dental ceramic material. Its superior strength can be used to make three-unit bridge for the molar teeth.

Recommended Indication

Veneer	Inlay	Onlay	Anterior crown	Posterior crown	Monolithic Bridge（≤3 Units）

Physical properties

Density(g/cm^3)	2.4-2.7
Vickers hardness(MPa)	5400±400
Fracture toughness(MPa·m$^{1/2}$)	2.55
Coefficient of thermal expansion($10^{-6}K^{-1}$)	9.8±0.5
Crystallization temperature(℃)	840-850
Chemical solubility(μg·cm^{-2})	30.3
Radioactivity(Bq/g)	< 0.019

Chemical composition

SiO_2	61%-71%
Li_2O	11%-17%
ZrO_2	1%-5%
Other oxides	6%-30%

Biological properties

Cytotoxicity test	Cytotoxicity level 0
Short-term systemic toxicity test (oral route)	no systemic toxicity
Sensitization test	no sensitization
Hemolysis test	hemolysis rate <5%
Ames test	negative for mutagenesis
Oral mucosa irritation test	no oral mucosa irritation
Subchronic Systemic Toxicity Test	not cause subchronic systemic toxicity

Crystallization curve

One-stage crystallization procedure

Starting temperature	Drying time	Heating rate	Holding temperature	Residence time	Furnace temperature	Vacuum start	Vacuum end
400℃	30s	40℃/min	840℃	7min	700℃	550℃	840℃

Two-stage crystallization process（Pecommended for use）

Starting temperature	Drying time	Heating rate	Holding temperature	Residence time	Heating rate	Holding temperature	Residence time
400℃	6min	60℃/min	820℃	10s	30℃/min	840℃	7min

Furnace temperature	Vacuum start	Vacuum end
700℃	550/820℃	820/840℃