



YP·DENTAL

Glass Ceramic Blocks For All-ceramic Dentures



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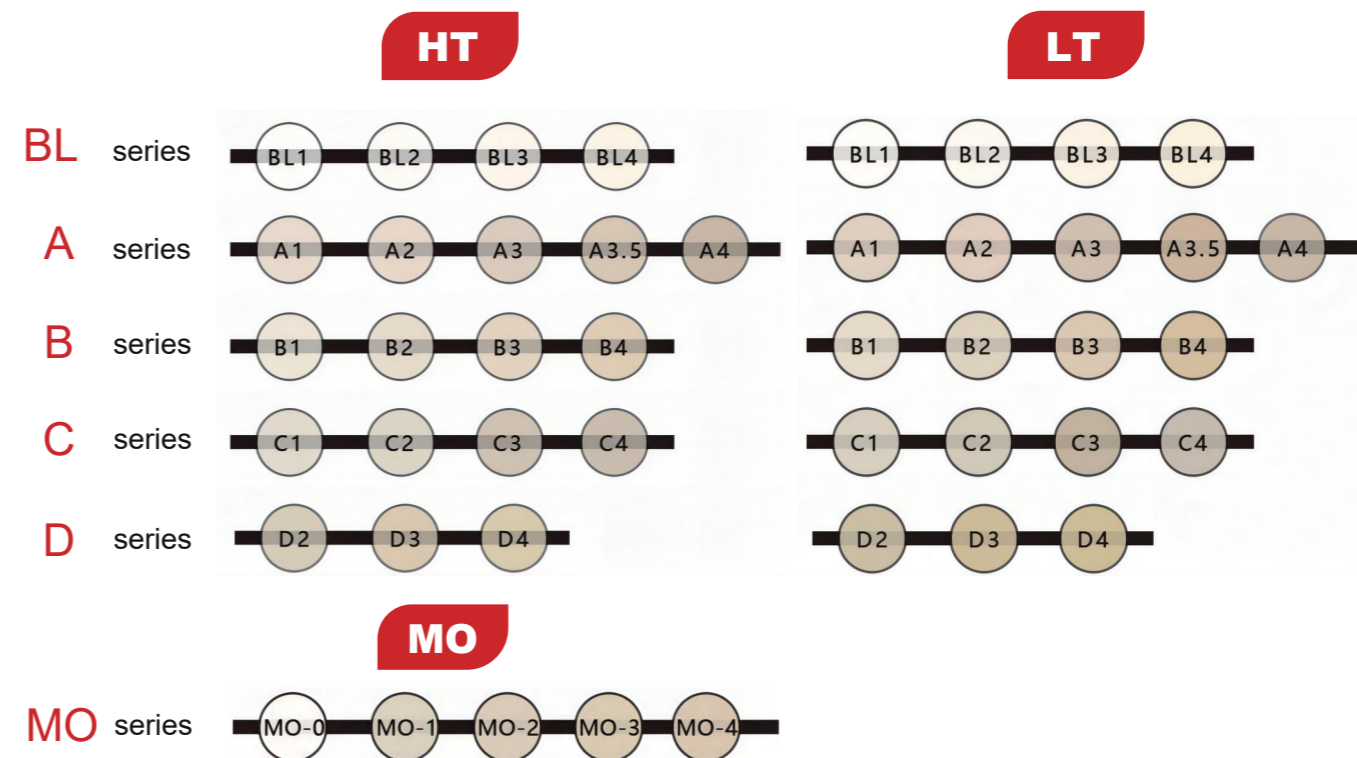
YP-DENTAL Press has excellent transparency, precise color, high imitation, excellent compatibility and good adhesion. All-porcelain restorations made after casting can show more outstanding natural beauty.



- Natural color, aesthetic effect is excellent.
- Suitable for ultra-thin veneer, more resistant to acid corrosion
- A small amount of pigment reaction layer, more convenient operation.
- Reliable strength, no risk of porcelain breakage



Transparency



Specification Classification

Press	Size(mm)	pcs/box
	D13*10	5pcs

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 (D13-10)	•	•	•	•	•	•	•			•	•						•	•	•	•	•	•	•
LT (D13-10)	•	•	•	•	•	•	•			•	•						•	•	•	•	•	•	•

Colors	MO-0	MO-1	MO-2	MO-3	MO-4
MO (D13-10)	•	•	•	•	•

Homogeneity

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



Bending strength

The average biaxial bending strength of crystallized press is 460Mpa, which is higher than the standard strength value set by ISO 6872:2008 Dental ceramic Materials and suitable for single unit anterior or posterior restoration fabrication.



Recommended Indication



Physical properties

Density(g/cm ³)	2.4-2.6
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(°C)	905-930
Chemical solubility(μg·cm ⁻²)	30.2
Radioactivity(Bq/g)	< 0.019

Chemical composition

SiO ₂	61%-71%
Li ₂ O	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

Pressure casting curve

Transparency	Embedding circle	Starting temperature	Heating rate	Maximum temperature	Holding time	Vacuum start	Vacuum end
HT	100g	700°C	60°C/min	905°C	15min	700°C	905°C
LT	100g	700°C	60°C/min	910°C	15min	700°C	910°C