

**MULTILAYER**



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**4ROLAND**  
DIGITAL CAM TECHNOLOGY

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MULTILAYER **Just glaze it**

**CAD/CAM Zirconia Material**



All indications | High stability | Simplified process

■ **MULTILAYER**

Everyone with a healthy and beautiful smile

## Product advantage »»

### MULTILAYER

Multilayer represents 4Roland's most advanced R&D and production lever integrating several patented technologies in one disc, meanwhile meeting the full range of indications. It has larger systematic processing, a wider sintering temperature range, and a increased stable three-dimensional gradient effect. Multilayer will uphold the vision of "making people healthier and more beautiful" and redefine all-ceramic prosthetic materials.



16 years

4Roland has 16 years of experience in the development and production of zirconia, with stable material performance.

2h

On the basis of realizing rapid sintering, Multilayer is compatible with many kinds of 4Roland zirconia materials (such as SHT-PC, SHTM) to achieve simultaneous sintering of multiple materials.

1510-1570°C

Multilayer has an ultra-wide sintering temperature range, giving a perfect bionic aesthetic effect at different temperatures.

### Incisal layer

53% Translucency 700MPa

### Cervical layer

43% Translucency 1050MPa

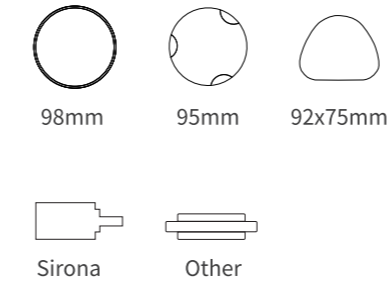


## Shade and dimension »»

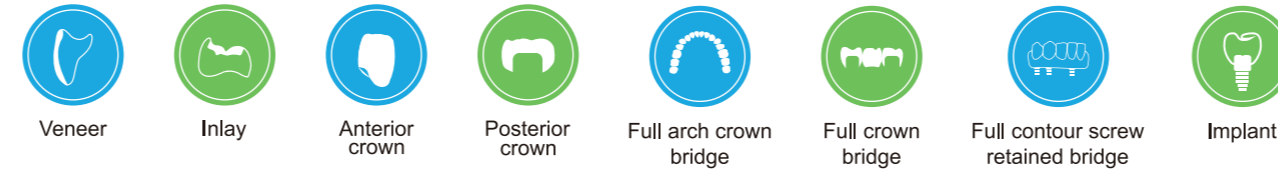


## Parameters and application systems »»

Color	Vita 16 colors/OM1/OM2/OM3
Aesthetic	Super high translucency
Sintered density	≥6.0g/cm <sup>3</sup>
Bending strength	Cervical part 1050MPa
Fracture toughness	5Mpam <sup>0.5</sup>
Hardness (Hv10)	1250



## Indications »»



## Digital work flow »»

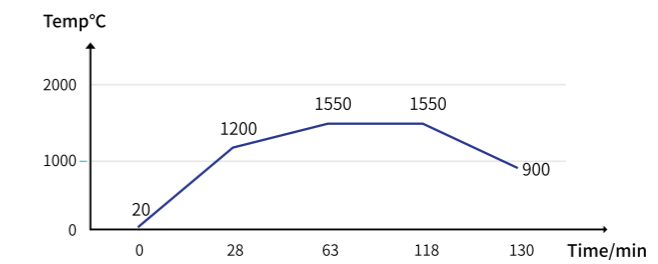
Multilayer is one incredible material, which can be used in the above systems, but it is also part of an entire digital workflow. From the intraoral scan to the final restoration, 4Roland have validated workflows with equipment and material for the whole process. Can be achieved faster production time and higher quality with Multilayer, take advantages of our service full technical and engineer support, through our dealers and ourselves 7days 24hours never stop worldwide. With Multilayer, you are not just purchasing any ordinary zirconia disc, but investing in a part of a wider dedicated system, benefitting the whole dental team and their patients. Dentists will definitely need it once they find out how different it is.



## Sintering curve »»

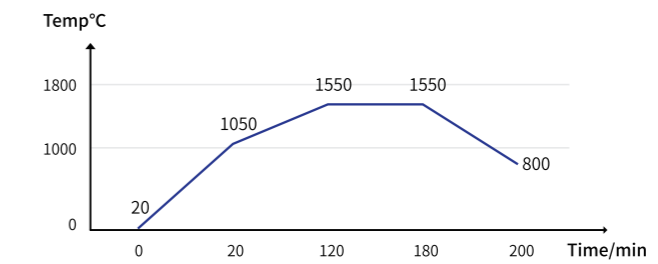
### Single crowns & Bridges ≤ 3 unit (2h)

Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to
20°C	43°C/min	1200°C	10°C/min	1550°C	55min	55°C/min	900°C



### Bridges 4-6 unit (3.4h)

Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to
20°C	51.5°C/min	1050°C	5°C/min	1550°C	60min	37.5°C/min	800°C



### Bridges ≥ 7 unit (11.5h)

Start temp	Phase 1 heating rate	Phase 1 Maximum temp	Holding time	Phase 2 heating rate	Phase 2 Maximum temp	Holding time	Cooling rate	Cooling to
20°C	5°C/min	900°C	30min	3°C/min	1530°C	120min	8°C/min	300°C

