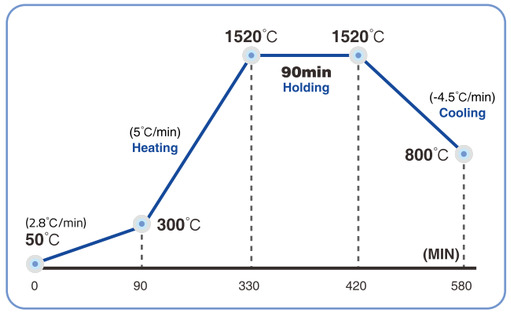
Sintering

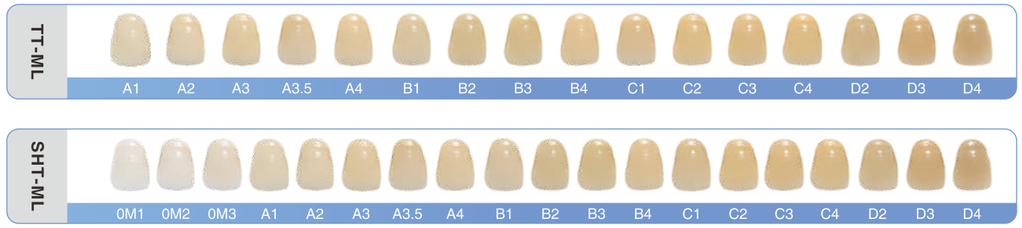
Aconia TT-ML SHT-ML Sintering Parameters



Step	Initial Temp	Rate	Final Temp	Time
1	50℃	2.8℃/min	300℃	90min
2	300℃	5℃/min	1520℃	240min
3	1520℃	Holding	1520℃	90min
4	1520℃	-4.5℃/min	800℃	160min
5	800℃	Natural cooling		

Applied to single unit and bridges under 7 units(1-7units)

Wide Shade Selection



Aconia Multilayer Gallery

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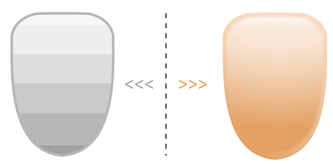
Aconia 3D MULTI Zir

Seamless Gradient, Seamless Care

Vita16+3Bleach TRADITIONAL NEW Aconia 3D MULTI

01 ***3D -*** *Shade+Strength+Translucency*
02 ***CAM -*** *Nesting friendly*
03 ***Transition -*** *No layer lines*



BSM 贝施美 | Aconia®

Technology Creates the Best Smile

www.bsmdental.com

Aconia 3D Multilayer Technology

. Excellent esthetic properties with integrated shade and seamless gradient
. Efficient, economical processing without staining procedure
. Simplify Zirconia material selection through wide indication application options

4 PARTS STRUCTURE

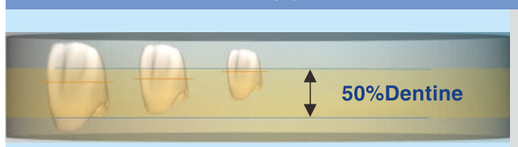
Incisal part	20%
Transition part	20%
Body part	50%
Cervical part	10%

What is 3D Multilayer?

1. **Gradient Chroma:**
   Increasing chroma from incisal to cervical
2. **Gradient translucency:**
   Increasing translucency from cervical to incisal
3. **Gradient flexural strength:**
   Increasing flexural strength from incisal to cervical

3D Multilayer	Translucency	Flexural strength
Aconia TTML	49% ↕ 46%	600MPa ↕ 900MPa
Aconia SHTML	46% ↕ 43%	900MPa ↕ 1100MPa

Aconia 3D Nesting Technology - Increased body part- 50%



Aconia 3D High Efficiency - Processing Procedure

3D Multilayer	Frequently-used Heights					
	14mm	16mm	18mm	20mm	22mm	25mm
20% Incisal part	2.8 mm	3.2 mm	3.6 mm	4 mm	4.4 mm	5 mm
20% Transition part	2.8 mm	3.2 mm	3.6 mm	4 mm	4.4 mm	5 mm
50% Body part	7 mm	8 mm	9 mm	10 mm	11 mm	12.5 mm
10% Cervical part	1.4 mm	1.6 mm	1.8 mm	2.0mm	2.2mm	2.5 mm

Multilayer — TT-ML

Create the best smile with highest esthetics

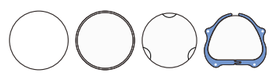
. Most natural appearance
. Perfect option for anterior esthetic restoration
. Fast and easy processing
. Creatively maximized efficiency and esthetics

Technical Data	
Flexural Strength (3-point)	600-900 Mpa
Translucency	46-49%
Vickers-hardness HV10	1300±50
Density	＞3.00 (g/cm³)
Sintered Density	＞6.02 (g/cm³)
Chemical Solubility	＜50 (μ g/cm³)
Radioactivity	＜0.1 (Bq·g^{-1})
Fracture toughness	＞3 (Mpa.m$^{1/2}$)
CTE(span25℃~500℃)	（10.5±0.5）*10^{-6}K^{-1}

Indication					
Veneer	Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 units)

Multilayer — SHT-ML

Create the best smile with highest flexibility



. All-in-one & One-for-all
. Seamless gradient in translucency, strength and shade
. Fast and easy processing
. Revolutionary combination of strength and translucency

Technical Data	
Flexural Strength (3-point)	900-1100 Mpa
Translucency	43-46%
Vickers-hardness HV10	1300±50
Density	＞3.00 (g/cm³)
Sintered Density	＞6.02 (g/cm³)
Chemical Solubility	＜50 (μ g/cm³)
Radioactivity	＜0.1 (Bq·g^{-1})
Fracture toughness	＞5 (Mpa.m$^{1/2}$)
CTE(span25℃~500℃)	（10.5±0.5）*10^{-6}K^{-1}

Indication						
Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 units)	Full contour posterior bridge (3 units)	Full contour bridge (≤14 units)