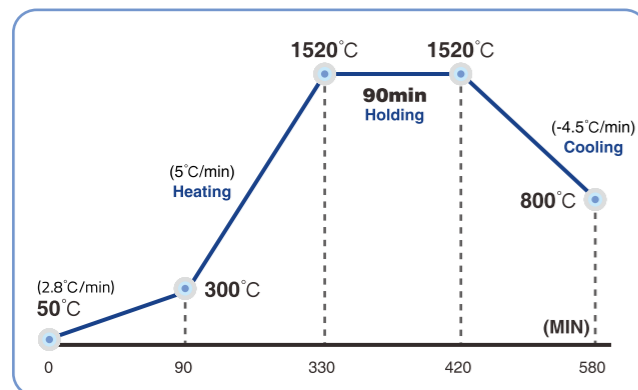




Sintering

Aconia TT-ML SHT-ML Sintering Parameters



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

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



Wide Shade Selection



Aconia Multilayer Gallery

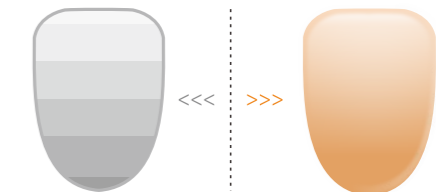


Aconia 3D MULTI

Seamless Gradient, Seamless Care



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



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bSM | 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



What is 3D Multilayer?

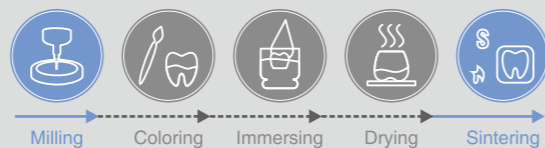
- 1 Gradient Chroma:**
Increasing chroma from incisal to cervical
- 2 Gradient translucency:**
Increasing translucency from cervical to incisal
- 3 Gradient flexural strength:**
Increasing flexural strength from incisal to cervical

3D Multilayer	Translucency	Flexural strength
Aconia® TTML	49%	600MPa
	↕	↕
	46%	900MPa
Aconia® SHTML	46%	900MPa
	↕	↕
	43%	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
20% Incisal part	2.8 mm	3.2 mm	3.6 mm	4 mm	4.4 mm
20% Transition part	2.8 mm	3.2 mm	3.6 mm	4 mm	4.4 mm
50% Body part	7 mm	8 mm	9 mm	10 mm	11 mm
10% Cervical part	1.4 mm	1.6 mm	1.8 mm	2.0mm	2.2mm

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 (μg/cm³)
Radioactivity	<0.1 (Bq·g⁻¹)
Fracture toughness	>3 (Mpa·m¹/²)
CTE(span25°C-500°C)	(10.5±0.5) *10⁻⁶K⁻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 (μg/cm³)
Radioactivity	<0.1 (Bq·g⁻¹)
Fracture toughness	>5 (Mpa·m¹/²)
CTE(span25°C-500°C)	(10.5±0.5) *10⁻⁶K⁻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 (≤7 units)