

IPS e.max[®]



SPECIAL EDITION

IPS e.max[®] PRESS MULTI "Select-Technique"



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ivoclar
vivadent[®]
passion vision innovation

Ultimate Aesthetics or Ultimate Strength... Which do you prefer?

Your dentists want both, and now you can create a product with a pure, strong IPS e.max® incisal edge and unlimited aesthetic possibilities.

Say goodbye to chipped incisal edges. We have all been there and do not want to go back! At Archibald Associates, we utilize the entire IPS e.max system, the same way a ceramist uses his porcelain kit. You don't need a new system, new equipment or extensive training. You just use the same IPS e.max you have... differently.

In our research circles this is being touted as the "biggest game-changer of the year". It is a simple process that can be taught to anyone in your laboratory. Soon you will be selecting your favorite combinations to provide precise control over the never-ending challenges of color dynamics and varying thickness.

Let us introduce you to the IPS e.max Press Multi *"Select-Technique"*.
Prosthodontists **request it**, ceramists **praise it**, artists **love it**!



e.max Press Multi *"Select-Technique"*



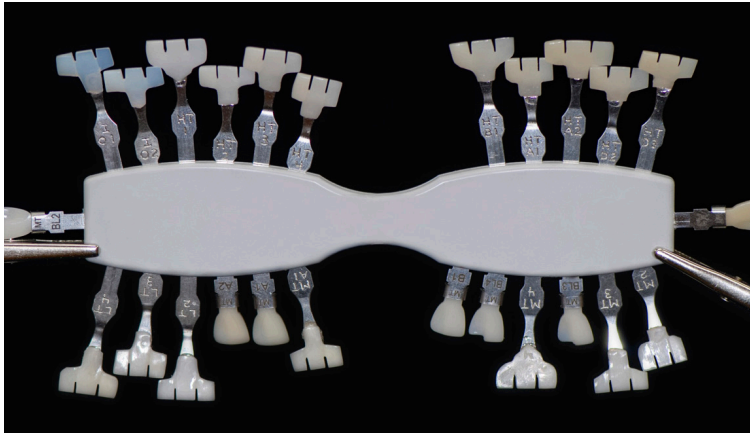
Select Layered Aesthetics ...

| | |
|-----------------|----|
| Process | 5 |
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... Select Monolithic Strength

| | |
|--------------------|----|
| Formula | |
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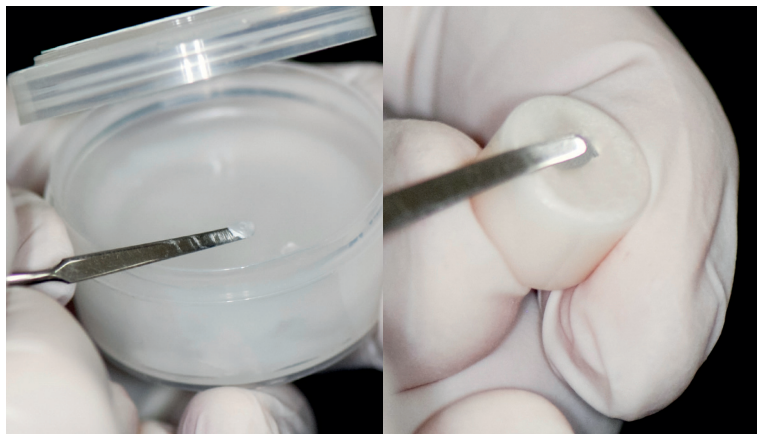
Process



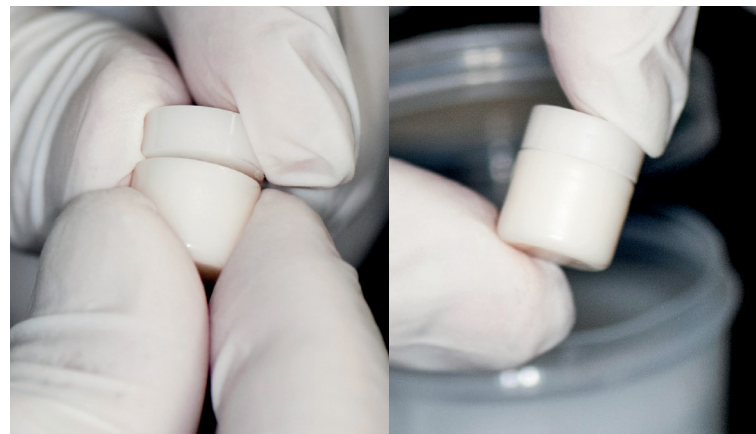
The process begins by mapping out color and value desired in each area of the tooth and then we work backwards to determine the ingots needed to get us to our goal. Prep shade and material thickness are taken into account as they both affect the final shade. Because color and value change with thickness we created our own shade tabs to include each shade and translucency at thicknesses of 0.75, 1.25 and 2 mm.



Once your shade selection is complete, cut or reduce ingots needed to 2 or 2.5 mm sleeves.



Remove writing on top of ingot (steam or scrape off) and place a small amount of clear burn-out organic sticky wax between sleeves.



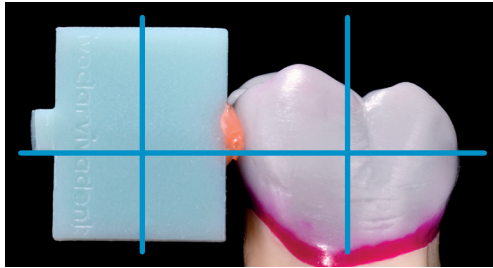
Press firmly together and confirm sleeves are lined up correctly to avoid any catching when stack is pressed into the investment.



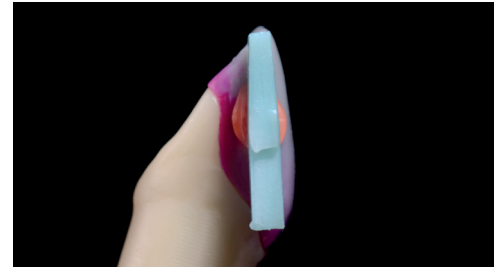
Check that height of combined sleeves is the same as the original Press Multi ingot (12.5 mm).



Sprue according to Ivoclar Vivadent IPS e.max Press Multi technique. This unique side-flow of the ceramic creates beautiful layers in your monolithic restoration.



Position the wax up so that its center lines up with the center of IPS Multi Wax Pattern A (shown) or B. The tapered end of the wax pattern should point in the occlusal/incisal direction.



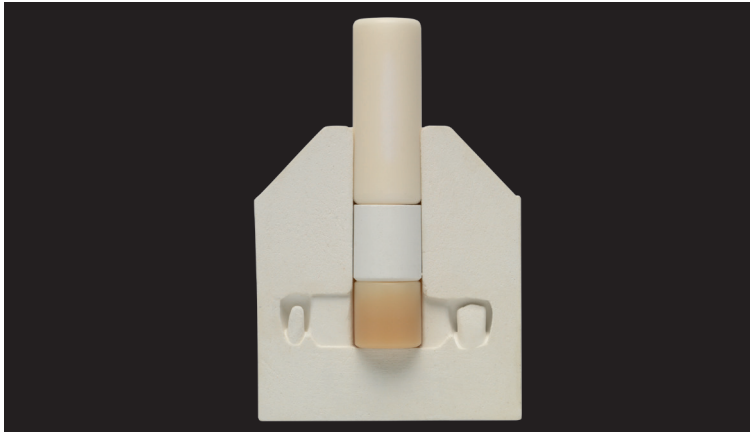
Wax pattern should be aligned with the labial surface of the wax-up.



Close the gap with a small amount of wax without forming an overly thick adjoining area. Rounding the cervical and occlusal edges of wax pattern will also prevent sharp angles in the investment.



Restorations are waxed to the IPS Multi investment base and ring and insert wax patterns into slots with incisal edge facing down. Use wax to fill and close off sprue slots to keep investment material out.



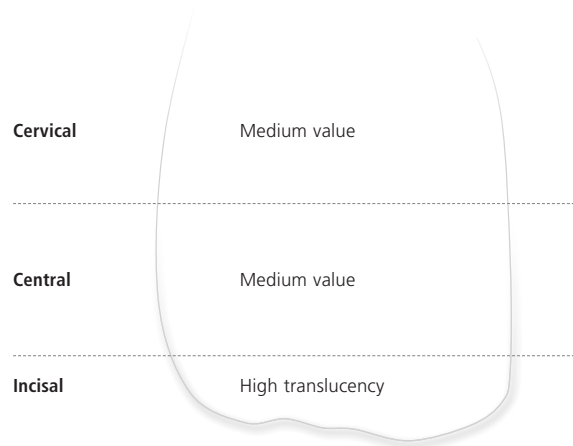
Insert ingot sleeve with dentin on the bottom and incisal shade on top. IPS Multi One-Way Plunger is then inserted before the alox plunger to lengthen plunger reach and ensure a complete press. The IPS e.max Press Multi program on Programat® EP3000, EP3010, EP5000 and EP5010 press furnaces is recommended for best results.



Enjoy your custom-shade restorations with monolithic strength!

Basic Technique

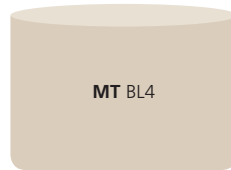
Analyze



Starting situation:
Patient wanted to improve overall anterior aesthetics, without having a “fake” look. Restorations also had to be monolithic due to the thickness and bite!

Sleeve Formula

Sleeve 1
6 mm



Sleeve 2
6 mm



Multi Select was used on teeth 7, 8, 9 and 10 to achieve true monolithic strength and beautiful aesthetics. The end result is not just a restoration that makes the patient happy, but one the doctor does not need to worry about ever!



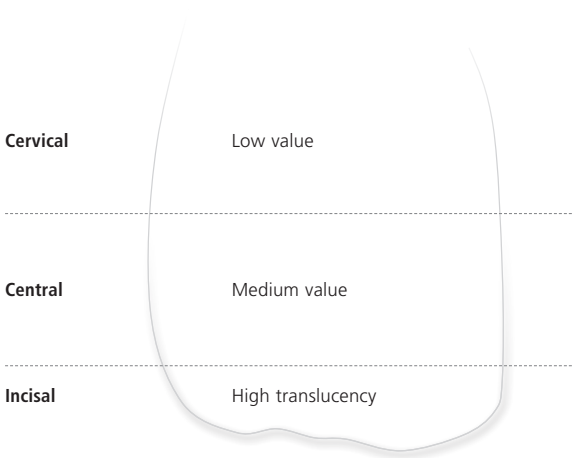
Stain and glaze only!
Would you believe you can have these aesthetics with a monolithic high-strength ceramic?
You can.

Formula



Formula #1

Analyze



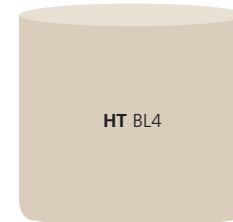
Desired outcome

Sleeve Formula



Layer thickness of the restoration: 1.3 mm

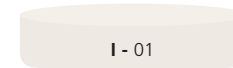
Sleeve 1
8 mm



Sleeve 2
2.5 mm

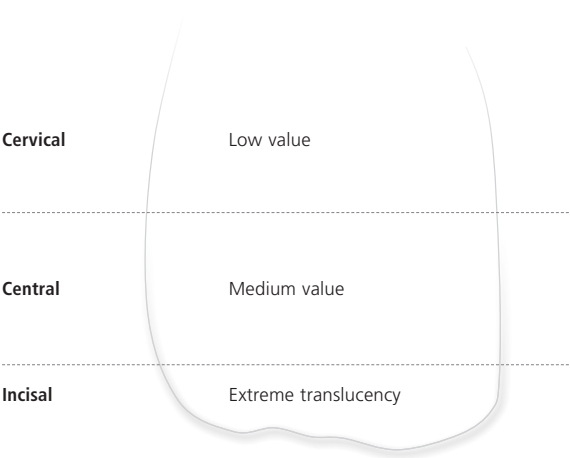


Sleeve 3
2 mm



Formula #2

Analyze



Desired outcome

Sleeve Formula



Layer thickness of the restoration: 1.3 mm

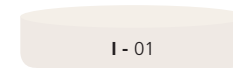
Sleeve 1
2.5 mm



Sleeve 2
8 mm

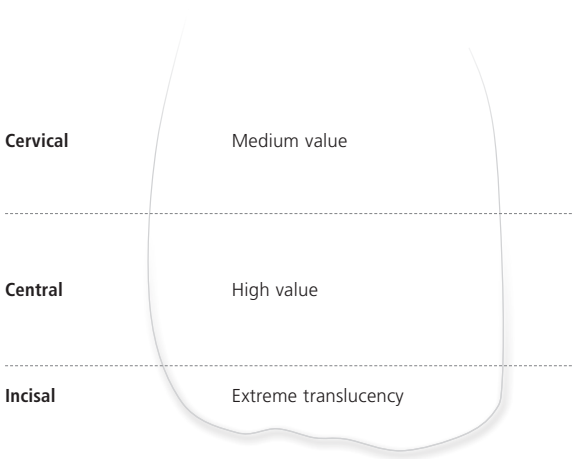


Sleeve 3
2 mm



Formula #3

Analyze



Desired outcome

Sleeve Formula



Layer thickness of the restoration: 1.3 mm

Sleeve 1
4 mm

MT BL3

Sleeve 2
6 mm

HT BL3

Sleeve 3
2 mm

I - 01

Advanced Technique

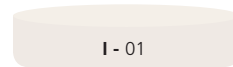
Not only are you able to reach unlimited aesthetic heights, but you can do it with a monolithic incisal edge!

Better yet, you can still use IPS e.max Ceram porcelain to modify and create this unbelievable beauty. In the following samples we "inlay" the buccal 5 mm.



Sleeve Formula

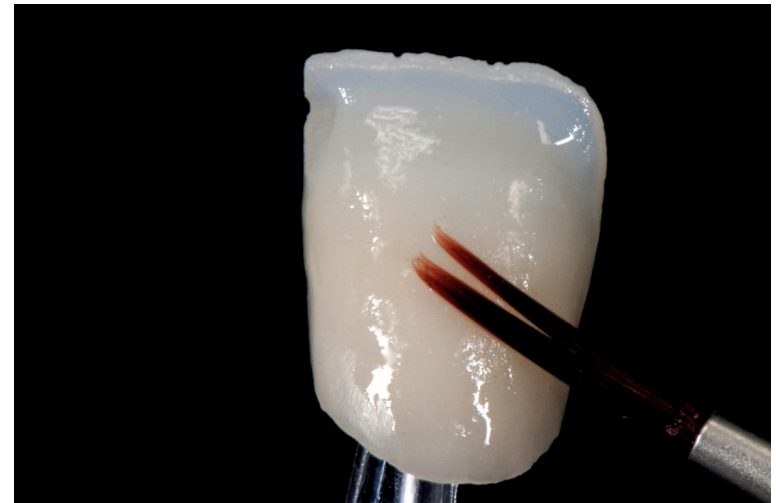
Sleeve 1
2 mm



Sleeve 2
2 mm



Sleeve 3
8 mm



This is one of the most user-friendly ways to achieve maximum aesthetics. You can characterize Multi Select in limitless ways with this inlay technique.



"Dust" wet stain with IPS e.max Ceram.
We recommend OE1.



Fired result





Add another layer of effect using IPS e.max Ceram MM (mamelon) porcelain. This allows for easy control of mamelon thickness and shape. If it does not come out the way you wish, you can simply shape and contour them as needed. The IPS Ivocolor Stain and Glaze system can also be used for vibrant color additives and glaze that makes gloss control easy and predictable.





After first bake



These are 3 very different results, all achieved using a very simple technique. The most amazing part of the restorations you create is the pure-monolithic incisal edge!



Now you and the doctor can both sleep well at night knowing you have given the patient something beautiful, custom and virtually unbreakable!

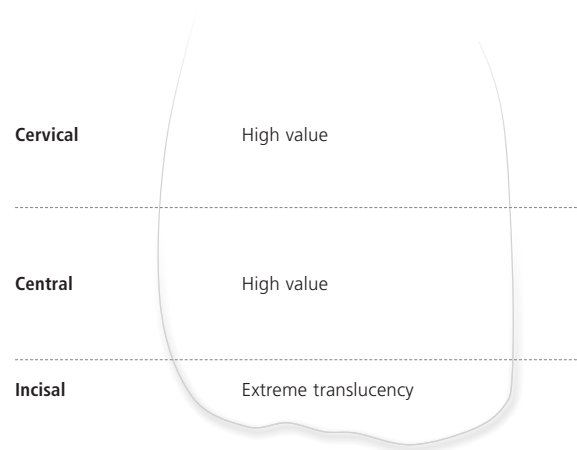


Starting Situation



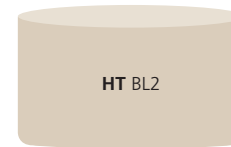
Note the irregular gum line. Patient wants to lighten teeth which will draw attention to the irregularity.

Analyze

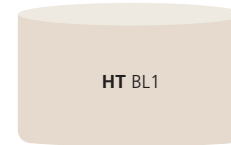


Sleeve Formula

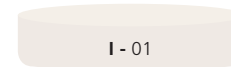
Sleeve 1
5 mm



Sleeve 1
5 mm



Sleeve 3
2 mm





Teeth 6, 7, 8, 9, 10, 11 were restored. Layer thickness of the restoration: 1.4 mm. Slight facial inlay only. Pure IPS e.max strength on incisal edges!



Note the softness of the gumline!
Can't wait to see what you can do with this technique!



I would like to thank Dr. William G. Christensen for his partnership on these cases and intra-oral photographs. A very special thank you also goes out to Jed Archibald, my son and cohort at Archibald Associates. Without his endless hours of work and never-ending support none of this would have been possible.

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*** WARNING!** THE METHOD DESCRIBED IN THESE INSTRUCTIONS REQUIRES THE USE OF EQUIPMENT THAT COULD LEAD TO SERIOUS INJURY. EXTREME CAUTION SHOULD BE USED WHEN CUTTING GLASS-CERAMICS. ALL USERS OF THE METHOD PROVIDED IN THESE INSTRUCTIONS ACKNOWLEDGE THAT THIS METHOD IS INHERENTLY DANGEROUS AND COULD LEAD TO SERIOUS INJURY AND ACCEPT ALL LIABILITY AND RISK ASSOCIATED WITH USING THE METHOD DESCRIBED. ALL INSTRUCTIONS AND PRECAUTIONS PROVIDED IN THE INSTRUCTIONS FOR USE PROVIDED BY THE MANUFACTURER OF THE CUTTING EQUIPMENT SHOULD BE STRICTLY FOLLOWED.

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