L A U N C H

FGM

# Elóra APS

**A contemporary composite.**
One concept, many possibilities.




FGM ESTHETICS

FGM

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**A contemporary composite.**
One concept, many possibilities.

**Elóra APS** is a nanohybrid composite resin that combines versatility and high esthetics, offering the ideal balance to solve daily clinical demands of practical and efficient way.

Its current shade system provides simplification and predictability to restorative procedures. Elóra APS has options for putty for dentin, body and enamel, offering natural esthetic results.

The combination of the APS system, combined with the composition and distribution particle size, was carefully designed to offer resistance and optical properties that reproduce the natural teeth.




Surprising result **using only Elóra APS composite, in shade A2.**



Dr. Ariel Braga

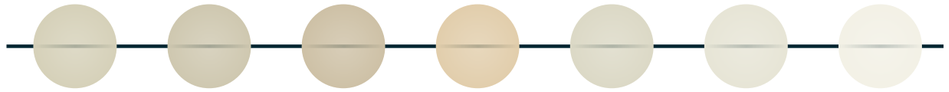
## The balance between efficiency and naturalness

With **Elóra APS**, achieving high esthetics is simple and effective. Its specially formulated composition features an updated and optimized shade system that delivers amazing results, with translucency and optical properties balanced to natural teeth.

In technique stratified or simplified, **Elóra APS** serves to a wide range of clinical application.

## SYSTEM WITH DIFFERENT TRANSLUCITY LEVELS

**BODY**



A1 A2 A3 A3.5 B1 BL XBL

**DENTIN**



DB1 DA1 DA3

**ENAMEL EFFECT**



TRANS WE

**CLINICAL CASE** | Dr. Ariel Braga



Initial



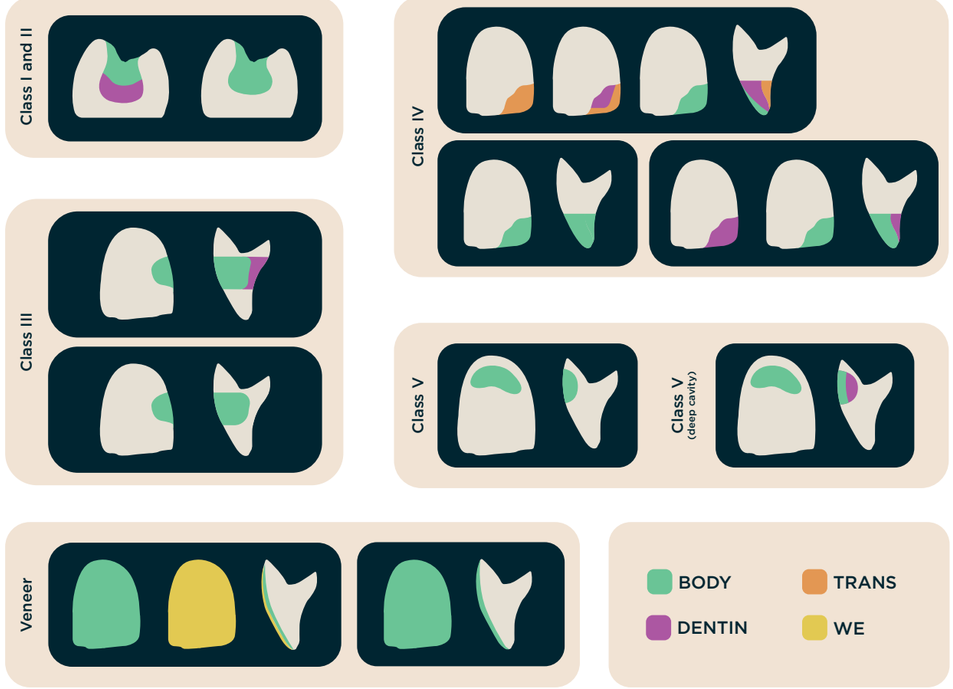
Final

Diastema closure with Elóra APS, in shade A2.

## Versatility

| Wide variety of clinical indications for anterior and posterior teeth. |
|---|
| ✓ Direct restorations of all classes; |
| ✓ Esthetic recontouring/diastemas; |
| ✓ Core build-ups; |
| ✓ Indirect and semi-direct restorations; |
| ✓ Repairs in porcelain/composite. |

## Restorative Possibilities




**Elóra APS** is useful for the main cases of offering high mechanical strength for posterior teeth and meeting the highest esthetic requirements of anterior teeth.

## DENTIN

Resins with lower degree of translucency, indicated for use as first layer in reproduction of dentin.

## BODY

Resins with medium translucency, which can be used as layer intermediate or single layer, reproducing both enamel and dentin.

## ENAMEL EFFECT

Enamel resins can be used as the first and last layer in restoration.

### TRANS

The most translucent enamel resin from the **Elóra APS** system is used to reproduce effects in specific areas, such as incisors and proximal areas.

### WE

The achromatic enamel resin can be used, depending on the type of restoration, as palatal and vestibular enamel, or only as vestibular enamel (as, for example, in cases of veneers).



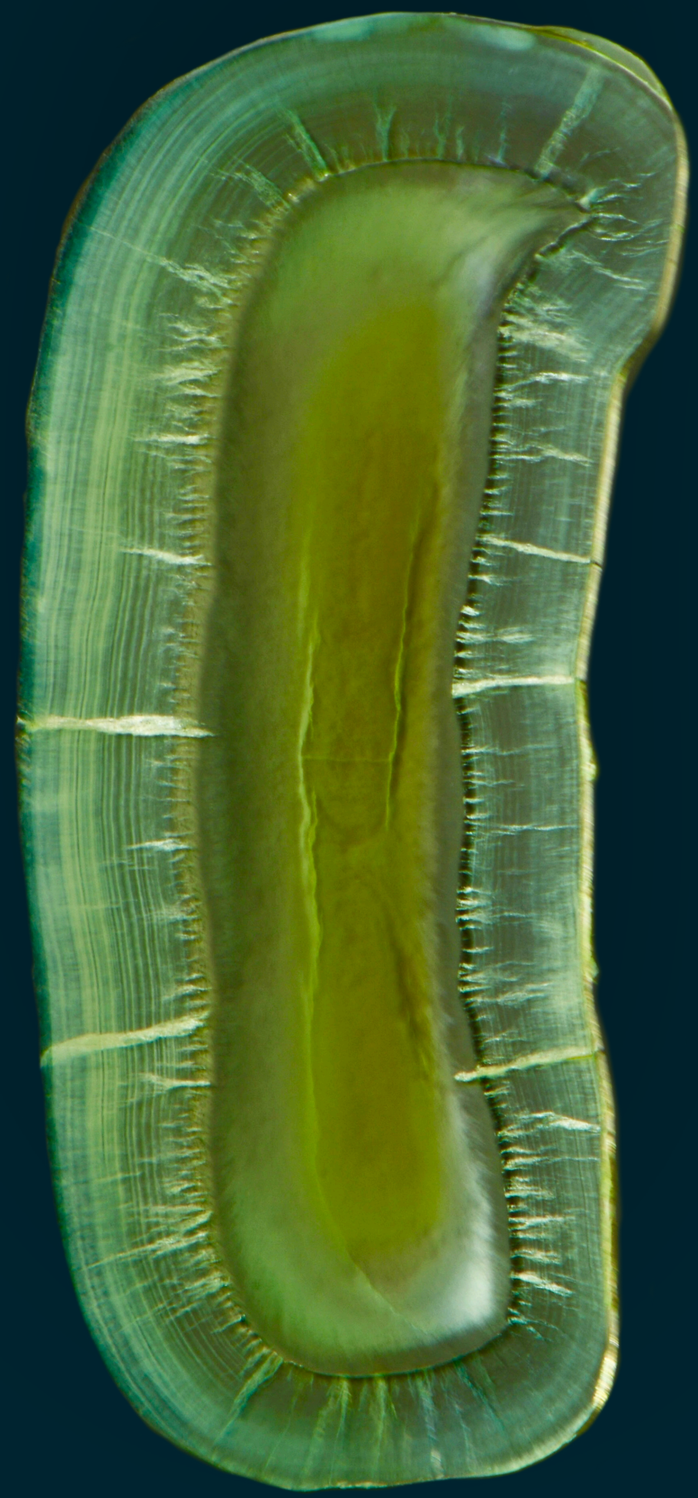



Photo: Prof. Dr. Luiz Narciso Baratieri

# Technology for high esthetic results

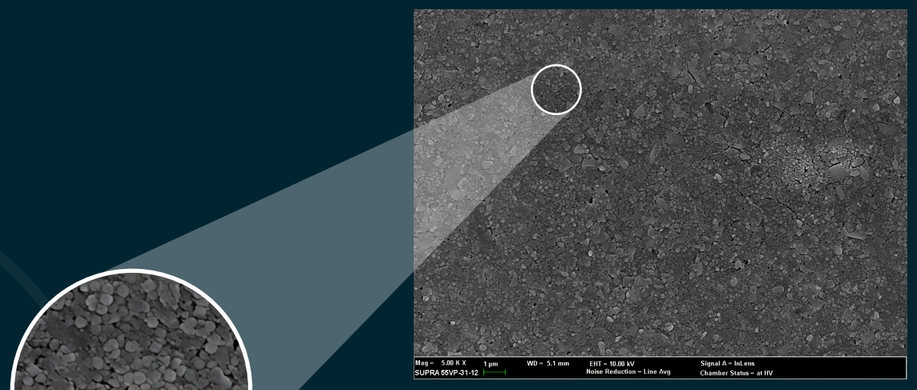
Elóra APS is a radiopaque resin that combines a high-performance monomeric composition and a new combination of fillers, with a wide distribution of sizes for greater densification, forming the **Optimized Filler Distribution** technology.

**4** TYPES OF **FILLER**

- Barium Glass;
- Spheroidal Zirconia Silicate;
- Spheroidal Synthetic Silica;
- Amorphous Synthetic Silica.

DISTRIBUTED IN **6** DIFFERENT **GRANULOMETRIES**

Promoting the optimization of the distribution and densification of loads from 0.02 to 0.7 microns in the polymer.




Source: FGM internal data

**The combination of**

POLYGONAL LOADS + SPHEROIDAL LOADS

**30%** **70%**

**Result in better packaging and densification, which gives the product**

**THE BEST MECHANICAL PROPERTIES AND HIGH SHINE.**

**OPTIMIZED** FILLER DISTRIBUTION

**SPHEROIDAL** ZIRCONIA SILICATE

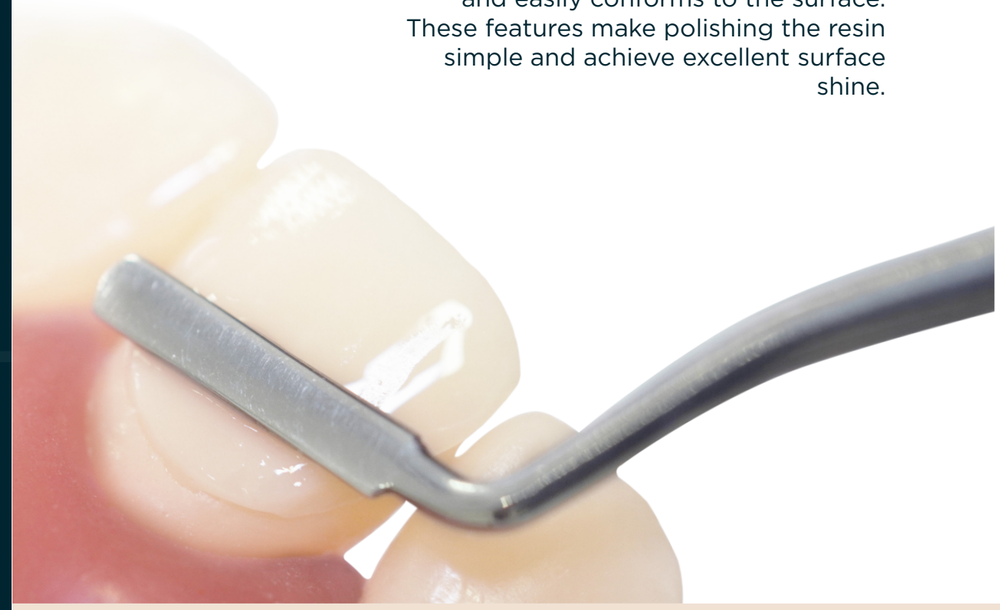
FILLER CONTENT **+76%**



Photo: Dr. Orlando Reginatto

# Excellent Handling

The balance of the resin composition **Elóra APS** optimizes the viscosity of the product while being sculpted, resulting in a consistency that is easy and pleasant to handle, does not stick to the spatula, and easily conforms to the surface. These features make polishing the resin simple and achieve excellent surface shine.



## APS Technology

FGM Exclusivity

- Provides more time to model and sculpt the resin;
- Shade predictability, with no significant variation after polymerization;
- Excellent mechanical properties.

Technology **APS** ADVANCED POLYMERIZATION SYSTEM

# Mechanical Properties

## Roughness (% Ra)

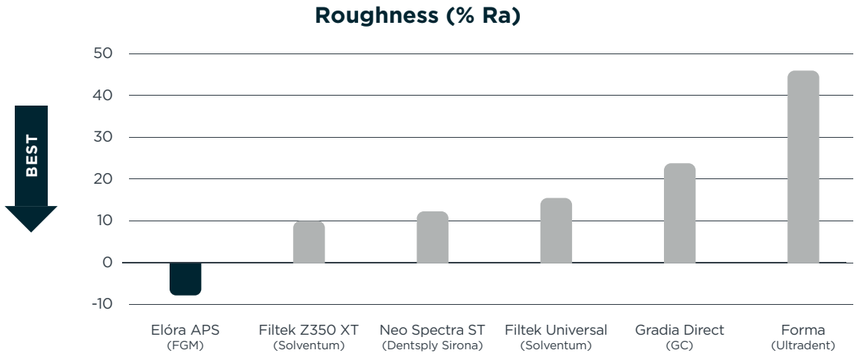


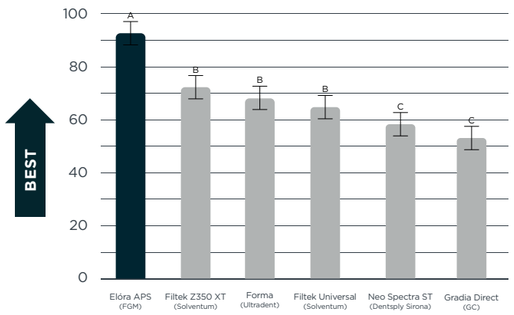

Figure 1. Percentage of roughness when comparing the values before and after simulated brushing (n=10 per experimental condition).

Source: Moreira PHA, Cochinski GD, Sovinski G, Reis A, Bauer J, Loguercio A. Universidade Estadual de Ponta Grossa (UEPG) e Universidade Federal do Maranhão (UFMA), 2024.

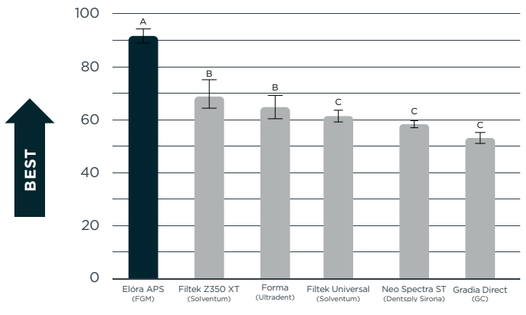
**Elóra APS** was the **ONLY** one to not show an increase in surface roughness after brushing simulated when compared to competing composite resins.

## Knoop Microhardness (KHN)

**Knoop Microhardness (Surface)**
Graph 2A




**Knoop Microhardness (Bottom)**
Graph 2B




Graph 2A and 2B. Mean and standard deviation of Knoop microhardness (KHN) of the composite resins evaluated.

(*) Equal letters indicate statistical similarity (ANOVA and Tukey test; p<0.05)
Source: Moreira PHA, Cochinski GD, Sovinski G, Reis A, Bauer J, Loguercio A. Universidade Estadual de Ponta Grossa (UEPG) and Universidade Federal do Maranhão (UFMA), 2024.

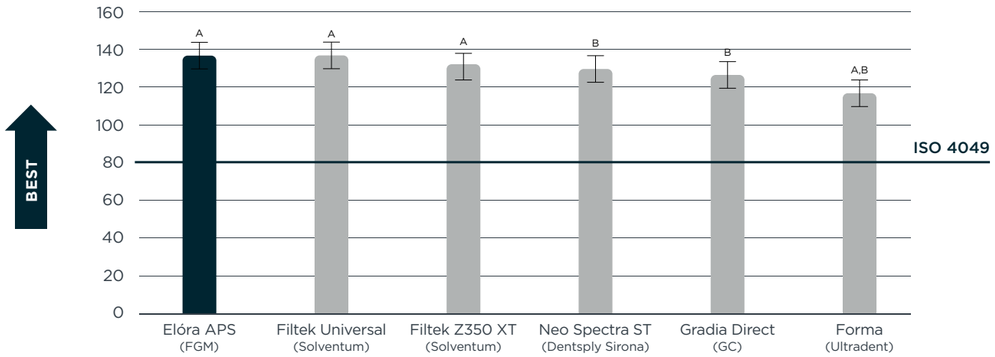
**Elóra APS** presented the **HIGHEST** Knopp microhardness values (surface and bottom), with statistically **SUPERIOR** results when compared to composite resins evaluated competitors.



### Benefits in clinical routine

In practice, these characteristics result in **greater resistance** of the restorative material to wear and abrasion, which contributes to the **longevity of the restoration**. Furthermore, the resins with these properties, such as **Elóra APS**, tend to better preserve the shine and smoothness over time, ensuring **longer-lasting esthetics.**

## Flexural strength (MPa)




Graph 3. Mean and standard deviation of flexural strength (MPa) of the composite resins evaluated (n=10 per condition experimental).

(*) Equal letters indicate statistical similarity (ANOVA of 2 factor and Tukey test; p<0.05)
Source: Moreira PHA, Cochinski GD, Sovinski G, Reis A, Bauer J, Loguercio A. Universidade Estadual de Ponta Grossa (UEPG) and Universidade Federal do Maranhão (UFMA),

Flexural strength is a mechanical property that allows evaluating the resistance of composites to fracture. **Elóra APS** presented **a high flexural strength value**, very above the pre-established standard for composites, positioning it among **the best resins market composites.**



### Benefits in clinical routine

In practice, it is fundamental to select materials with adequate mechanical strength, such as Elóra APS, especially for teeth subjected to high masticatory loads, such as occlusal surfaces in posterior teeth and incisal edges in anterior teeth. In this sense, flexural strength reflects the quality of the composite formed after polymerization, resulting from the interaction between the polymeric matrix, the types of loads used, and the efficiency of photoinitiators in converting monomers into polymers.

"The new **Elóra APS** composite resin demonstrated excellent values in terms of mechanical properties when compared to their competitors, as a result of its high degree of conversion and the mix of particles of charge present in the composition of this material.

**Prof. Dr. Alessandro Loguercio**



# Commercial Presentation




**Refil:**
**Syringe with 4g in shades:**
A1, A2, A3, A3.5, B1, BL, XBL, DB1, DA1, DA3.
**Syringes with 2g in shades:** Trans ou WE.

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ESTHETICS

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