



TECHNICAL DATA SHEET ZAFIRA® LIGHT-CURING COMPOSITES DPFTPT-169

1. PRODUCT OVERVIEW

Zafira Light Curing Composite is a dental resin intended for the restoration of anterior and posterior teeth, with wear resistance similar to enamel. Its formula is based on a combination of different methacrylate monomers, silane agents, and inorganic fillers with radiopaque characteristics. The particle-size distribution range is from 0.04 μm to 2.0 μm with an average particle size is 0.7 μm and a total inorganic filler content between 75% and 79% by weight, to provide a product with physical, mechanical, and aesthetic properties suitable for dental restoration.

Zafira Light Curing Composite is available in a range of shades with several opacities, including enamel, dentin, and translucent shades, enabling dentists to create restorations with a more natural color that can be adapted to each patient's anatomy, with excellent finishing and polishing capacity and easy handling.

Likewise, this composite resin is intended for the reconstruction of individual gingival areas, either directly in the mouth or during the characterization of dental prostheses.

2. COMPOSITION INFORMATION

Zafira Light Curing Composite and Zafira Light Curing Gum Composite are composed of a mixture of monomers and inorganic fillers. The monomer matrix consists of dimethacrylates. The filler contains barium glass and silicon dioxide. It also contains additives, initiators, stabilizers, and pigments.

3. PRODUCT PROPERTIES

Based on an international standard, the physical properties of the product are verified in the quality control lab using specialized and calibrated equipment. The most relevant physical properties are shown in following table.

Property	Requirement (ISO 4049)	Product result
Depth of cure (mm)	1.5 minimum	> 2.0
Flexural strength (MPa)	80 minimum	> 120
Water sorption ($\mu\text{g}/\text{mm}^3$)	40 maximum	< 15
Solubility ($\mu\text{g}/\text{mm}^3$)	7.5 maximum	< 2
Flexural modulus (MPa)	Not applicable	> 8000
Compressive strength (MPa)	Not applicable	> 200
Volumetric shrinkage (%)	Not applicable	2.6

For Zafira Light Curing Gum Composite, the most relevant properties are shown in the following table.

Property
Easy handling.

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E	1 of 4	Technical Director of MD	2026-07-08	00

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Property

High aesthetics.
Versatility in shades with and without fibers.

4. USE AND APPLICATIONS

Zafira light-curing composite resins are products intended for professional dental use and they are indicated as direct and indirect restorative materials for functional and aesthetic purposes. Zafira Light Curing Composite is mainly indicated for the restoration of anterior and posterior teeth, while Zafira Light Curing Gum Composite is designed for gingival reproduction and characterization of dental prostheses. The main indications are:

Zafira Light Curing Composite:

- Small to medium-sized occlusal, proximal, and occluso-proximal restorations.
- Restorations in the anterior region (Class III and IV).
- Restorations in the posterior region (Class I and II).
- Restorations in the cervical area (Class V).
- Direct veneers.
- Correction of structural defects (amelogenesis imperfecta, enamel hypoplasia, non-carious cervical lesions).
- Modification of tooth position and shape (reduction or closure of interdental spaces, closure of diastemas, and lengthening of incisal edges).

Zafira Light Curing Gum Composite:

- Reproduction of gingiva on implant-supported superstructures.
- Crown and bridge techniques.
- Removable restorations.
- Characterization of complete or partial dentures.
- Complete gingival reproduction.

5. PRODUCT QUALITY ASSURANCE

Zafira Light Curing Composite and Zafira Light Curing Gum Composite are manufactured with high-quality raw materials through a standardized production process. In addition, the Quality Control Laboratory verifies compliance with finished-product requirements according to ISO 4049 by applying standardized and validated analytical methodologies using specialized and calibrated equipments.

Date of Creation		Prepared by:	Reviewed by:	
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Class	Page	Approved by:	Update:	Version
E	2 of 4	Technical Director of MD	2026-07-08	00

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6. INSTRUCTIONS FOR USE

Zafira Light Curing Composite

It is applied directly into the prepared cavity or onto the prepared dental surface using an incremental technique, followed by activation with visible light to obtain the final restoration.

Mode of use:

Before restoration, the tooth is cleaned and the shade is selected while the tooth is moist. The clinical procedure includes isolation of the operative field, conservative cavity preparation, pulp protection, when necessary, placement of an interdental matrix, and application of the corresponding adhesive system. The resin is placed in increments of up to 2 mm inside the cavity or on the surface to be restored, contouring and adapting the material before light curing. Each increment is activated with a visible-light lamp within the recommended range until the restoration is completed. Finally, finishing, occlusal adjustment, and polishing procedures are carried out to obtain the final shape and finish of the restoration.

Zafira Light Curing Gum Composite

It is used both directly in the mouth and in laboratory procedures on dental prostheses. Its application allows gingival areas to be reproduced using direct or indirect techniques, followed by light activation.

Mode of use:

Before application, the surface to be restored must be prepared using mechanical or chemical procedures, as appropriate. The resin is applied with a spatula in layers, generally starting with darker shades and continuing with lighter shades to achieve a natural appearance. In deep or extensive restorations, the material is placed in layers or segments, light-curing each one with a curing unit that meets the recommended wavelength and intensity parameters. Once application and curing are complete, excess material is trimmed, contoured, and polished to obtain the final finish.

See the instructions for use of the product for more information.

7. COMMERCIAL PRESENTATIONS

Zafira Light Curing Composite is available in individual syringes per 1 g and 4,2 g. Dentin shades: A1, A2, A3, A3.5, B0, B1. Enamel shades: A1, A2, A3, B1, B2. Translucent shade Incisal Light. Bleach shades BL Dentin, BL Enamel, BLX Dentin, BLX Enamel.

Zafira Light Curing Gum Composite is available in individual syringes per 1 g and 4,2 g. Shades: Dark Pink, Dark Pink Veined, Light Pink, Brown, and Orange Pink.

Date of Creation		Prepared by:	Reviewed by:	
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Class	Page	Approved by:	Update:	Version
E	3 of 4	Technical Director of MD	2026-07-08	00

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8. STORAGE AND PRESERVATION CONDITIONS

- Store the product in a clean, dry place, protected from light and in its original packaging.
- Avoid excessive heat and store at room temperature (5°C/41°F – 30°C/86°F).
- Close the syringe immediately after use. Exposure to light causes premature polymerization.
- Do not use the product after its expiration date.
- Do not reuse the empty packaging.
- Protect the product from external contamination.

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Class	Page	Approved by:	Update:	Version
E	4 of 4	Technical Director of MD	2026-07-08	00

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