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Professional dentaluse
Product code: PSCS12 EU

ClearShape Resin

Resin for direct-printed transparent dental appliances

Designed for digitally manufactured aligners, retainers and splints, with a consistent shape-memory response and reliable clinical handling.

MADE IN EU · ISO · MDR · CE

Multi-appliance

One material for transparent appliance indications.

Direct printed

Digital workflow from design to final appliance production.

Shape-memory response

Heat activated behavior withTg at 45°C.

Comfort-focused flexibility

60% elongation at break for resilient appliance performance.

Clinical advantages

- Precise, consistent fit across supported appliance types
- Consistent force delivery for controlled clinical performance
- Shape retention designed for daily appliance use
- Digital customization from intraoral scan to appliance design
- Supports in-house or lab-based direct-print production
- Validated printer and curing compatibility

Applications

Aligners	Retainers	Splints
Direct-printed transparent appliance.	Direct-printed transparent appliance.	Direct-printed transparent appliance.

Positioning note: ClearShape is intended for professional dental use. Final claims, indications and printer compatibility should match the approved TDS, IFU and validation documentation.

Material properties

Property	Value
Viscosity	500 +/- 100 cP
Tg for heat activation	45 °C
Flexural strength	40 MPa
Flexural modulus	980 MPa
Tensile strength	30 MPa
Elongation at break	60%

Material properties may vary based on part geometry, print orientation, print settings, temperature, and disinfection or sterilization methods used. Data for post-cured samples were verified and validated by Plus-U (Sweeth) for compatible equipment using post-processing instructions listed in the IFU.

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Sweeth ClearShape

Dental 3D-printing material

Technical overview

ClearShape - EU | Version 1.0.0 - 02/03/2026

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Biocompatibility evaluation

Standard	Result	Meaning
ISO 10993-1:2025	Conform	Biological evaluation
ISO 10993-5	Not cytotoxic	Cell viability evaluation
ISO 10993-10	Not sensitizing	Skin sensitization evaluation
ISO 10993-23	Not irritating	Irritation evaluation

Documentation and validation

Technical Data Sheet
Available upon request.

Safety Data Sheet
Available upon request.

Instructions for Use
Available upon request.

Label and safety information

Hazard and precautionary statements

EN Danger
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.
P302 + P352: If on skin: Wash with plenty of water and soap.

Compliance & Documentation

REF: PSCS12
Store cool, well ventilated, and protected from sunlight
Consult Instructions for Use

Manufacturer: Plus-U BV, Gent, Belgium

Compatible equipment overview

Equipment	Manufacturer / model	Satus	Notes
Printer	Uniz UBEE Shining AccuFab-CEL	Validated	Layer settings, support settings and resin profile.
Curing unit	Asiga CURE (with vacuum) RapidShape RS Cure (with vacuum) Graphy TeraHarz Cure 2 (with nitrogen)	Validated	Curing time, temperature and post-cure protocol.

Handling and safety: Use PPE, avoid skin and eye contact with uncured resin, ensure good ventilation and follow the latest SDS and IFU. Avoid release into the environment.