

## UCAN PRINT: TRADITION GOES ADDITIVE

Candulor presents UCAN Print, a new 3D printing resin for the laboratory



### Article

Additive manufacturing is a game-changer for dental laboratories. Nonetheless, trained dental technicians are well aware that full dentures require more than mere technology. With UCAN, Candulor has developed a concept that combines decades of prosthetic expertise and digital technology with state-of-the-art materials. With UCAN Print, the company is now introducing a range of 5 new 3D printing resins.



Digital transformation is shaping today's dental technology. This also implies that the fabrication of removable dentures will be undergoing fundamental changes. The future belongs to high-performance CAD systems with extensive tooth libraries – be it for milling or 3D printing. Candulor supports this development with all its expertise. The company transfers its many decades of knowledge into digital concepts in a targeted manner. To give an example: the Denture SmileLibrary + is now available on 3Shape®\*. The tooth library makes digital setup and the design of the denture base intuitive. The focus is on 453 predefined setup options – bringing prosthetic expertise to the digital workflow. Candulor is now expanding this digital concept with high-quality materials for additive manufacturing.

Alexander Ewert, Director of Marketing & Education at Candulor, on the subject: “Like many traditional dental companies, we come from an analog world and have been serving our customers for decades. Our customers decide how they wish to work. We listen and actively seek to understand what motivates our customers. With the new auxiliary materials and the base material for 3D printing, we offer additional options to arrive at a solution. Ultimately, what counts is the unique result for the patient, whether created by analog, digital or hybrid means.”

### **UCAN Print: New materials for individual approaches**

Candulor presents UCAN Print - the new 3D printing materials. The five new resins cover virtually all production steps for removable dentures: they enable the printing of models, the production of functional trays, as well as the fabrication of try-ins and denture bases. The UCAN Print Base for denture bases is core to the UCAN Print family. The material sets high standards: water absorption is less than 25 µg/mm<sup>3</sup>, shrinkage is less than 1% – values that significantly exceed ISO standards. UCAN Print Try-In for try-ins is characterized by a 75% higher impact strength compared to other products. XPLEX Bond ensures that denture teeth are securely bonded to the printed base. “It is precisely the combination of analog and digital processing techniques that can achieve a result that brings together functional, esthetic and economic aspects, for example by combining our prefabricated teeth in a printed base,” says Oliver Benz, Head of Education at Candulor.

## **The UCAN Print product family at a glance**

- UCAN Print Model features a surface that is accurate in every detail and impresses with high thermal stability - ideal for models and thermoforming processes.
- UCAN Print Splint, the special biomimetic 3D printing resin for orthodontic splints, combines stability with flexibility. The thermal effect ensures a high level of wearing comfort for patients.
- UCAN Print Tray is a biocompatible printing resin for impression trays with a 50% higher impact strength than comparable materials. The result: stable functional impressions without TPO additives.
- UCAN Print Try-In in shade A2 ensures precise try-ins. The superior impact resistance assures precise transferability.
- UCAN Print Base proves convincing as a base for permanent restorations. Minimal water absorption and low shrinkage for a perfect fit. The high-impact properties make the material more impact-resistant than other materials - for a long service life of removable dentures.

UCAN print resins can be processed in various 3D printing systems. They emphasize the concept of flexibility: each laboratory can choose its own method - with the assurance of proven Candulor quality.

## **The foundation has been laid**

Digital fabrication not only opens up new possibilities in full dentures. This is confirmed time and again: precise results are best achieved by combining craftsmanship with reliable materials. With UCAN Print, Candulor offers laboratories both: tested materials for state-of-the-art production methods. The message is quite simple: UCAN stands for "You Can" - as the technology is backed by genuine prosthetic expertise.

\*Currently available in Germany, the Netherlands and Canada (Ontario, Nova Scotia, New Brunswick, Prince Edward Island, Newfoundland, Labrador & Quebec)



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## About CANDULOR

### **CANDULOR. HIGH END ONLY.**

CANDULOR stands for high-end prosthetics in the field of partial, full and implant-supported restorations. The dental company, with headquarters in Switzerland, was founded back in 1936 and offers a complete prosthetic system for dental technicians and prosthodontists. CANDULOR products are used in high-quality prosthetics that combine esthetics, design and functionality and meet the most demanding requirements for quality and individuality. With the unique SSOP training concept, CANDULOR contributes significantly to maintaining, sharing and further developing prosthetic expertise and practical know-how in the dental industry. Today, CANDULOR counts some 65 employees and operates worldwide, in part directly and in part through a network of distribution partners. For more information about CANDULOR see [www.candulor.com](http://www.candulor.com).

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[Image overview]

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Fig. 1: Product family UCAN Print

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Fig. 2: UCAN Print Base

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Fig. 3: UCAN Print Model

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