

Additive Manufacturing and Dental

Additive Manufacturing is becoming increasingly relevant and important for the dental industry. Thanks to 3D printing, dental models and molds can now be manufactured at high speed and reasonably low cost with unprecedented level of accuracy. Due to its powerful ties to BASF, Forward AM has one of the broadest portfolios of high-performance 3D printing materials, including photopolymers. The latter is ideally suited for dentistry as it allows the manufacturing of parts with highly accurate details – crucial for applications such as dental models and molds, which can be used for on site aligners production.



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Accelerating Dental Models Manufacturing

Additive Manufacturing Materials Solutions

Explore the evolution of Additive Manufacturing for Dental Aligners and more with performance materials from BASF Forward AM



Ultracur3D® DM 2505 : Accuracy is key

Our Ultracur3D® DM 2505 resin is characterized by high rigidity, high dimensional stability and edge sharpness, which makes it the ideal solution for 3D modeling and molding for dental applications. This resin's very high print accuracy and detailing can bring the cost-per-part down for dental prosthetics manufacturers and clinics by reducing post-processing and fitting time, thereby accelerating the customer-base growth.



Read the Accuracy
Evaluation Study



Wide range of applications for dental models:

Clear aligners, crowns and bridges, veneers,
bitesplints, inlays/onlays/overlays
and much more

Dental Photopolymers Portfolio:

Forward AM offers a suite of competitive materials in the Ultracur3D® Dental Line - three advanced reactive urethane photopolymers specifically developed for key dental 3D printed applications such as models, molds and gingiva masks. Choose our Ultracur3D® DM/DMD materials to speed up fitting iterations and minimize costs in this design-intensive application field.

These materials have been validated on a range of DLP/LCD printers to ensure compatibility and accurate printing.



Ultracur3D® DM 2505

- Water washable, no chemicals needed
- Ideal for thermoforming



Ultracur3D® DM 2304

- Ideal for gingiva masks for 3D printed dental models
- Flexible to recreate the look and feel of gum tissue (50A Shore Hardness)



Ultracur3D® DMD 1005

- Ideal for economic and large-scale production of dental models and molds
- Good printing accuracy