Advanced materials for superior digital dentistry and orthodontics.
Stratasys® offers an impressive array of dental materials for one of the most innovative 3D printing technologies, PolyJet™. Combining superior accuracy, high precision and dimensional stability, the Stratasys Dental Series of 3D printers uses these materials to create a range of dental appliances, restorations and models with consistency and exactness.

**Clear Bio-compatible (MED610)**
Transparent, bio-compatible material that is medically approved for temporary in-mouth placement.
Ideal for:
- Orthodontic appliances
- Delivery and positioning trays
- Surgical guides

**VeroGlaze™ (MED620)**
Opaque white material with A2 shading designed to provide the best color match in the industry. VeroGlaze is medically approved for temporary in-mouth placement up to 24 hours.
Ideal for: Veneer try-ins and diagnostic wax-ups

**VeroDent™ (MED670)**
Natural peach-tone material with high-quality detail, strength and durability.
Ideal for: Dental and orthodontic models

**VeroDentPlus™ (MED690)**
Dark beige material that creates amazingly fine features and finish. VeroDentPlus also offers excellent strength and durability, and delivers a higher level of opacity than VeroDent.
Ideal for: Dental and orthodontic models

**Triple-jetting technology**
In addition, standard 3D printing materials provide composites with these advanced features:
- Gum-like textures
- Range of colors to represent natural tooth and gum shades
- Ability to render anatomy such as nerve canal, jaw and teeth in contrasting materials, all in one print
## Dental Materials

**PROPERTY** | **STANDARD/PROCEDURE** | **CLEAR BIO-COMPATIBLE MED610** | **VEROGLAZE MED620** | **VERODENT MED670** | **VERODENT PLUS MED690**
---|---|---|---|---|---
Tensile Strength (MPa) | D-638-03 | 50 – 65 | 55 – 65 | 50 – 60 | 54 – 65
Modulus of elasticity (MPa) | D-638-04 | 2,000 – 3,000 | 2,300 – 3,300 | 2,000 – 3,000 | 2,200 – 3,200
Flexural Strength (MPa) | D-790-03 | 75 – 110 | 80 – 100 | 75 – 110 | 80 – 110
HDT 0.45 MPa (°C) | D-648-06 | 45 – 50 | 45 – 50 | 45 – 50 | 45 – 50
HDT 1.82 MPa (°C) | D-648-07 | 45 – 50 | 45 – 50 | 45 – 50 | 45 – 50
Izod Notched Impact (J/M) | D-256-06 | 20 – 30 | 20 – 30 | 20 – 30 | 20 – 30
Water Absorption (%) | D-570-98 24HR | 1.1 – 1.5 | 1.1 – 1.5 | 1.1 – 1.5 | 1.2 – 1.5
Tg (°C) | DMA E | 52 – 54 | 52 – 54 | 52 – 54 | 52 – 54
Shore Hardness (D) | Scale D | 83 – 86 | 83 – 86 | 83 – 86 | 83 – 86
Rockwell Hardness (scale M) | Scale M | 73 – 76 | 73 – 76 | 73 – 76 | 73 – 76
Polymerized density (gr/cm³) | ASTM D792 | 1.17 – 1.18 | 1.17 – 1.18 | 1.17 – 1.18 | 1.17 – 1.18
Bio-compatibility | DIN EN ISO 10993-1:2009 | Approved | Approved | — | —
Support Removal Type | WaterJet | WaterJet or soluble* | WaterJet or soluble* | WaterJet or soluble*

*Soluble support is available on the Eden260VS Dental Advantage. No full bio-compatibility on soluble support.