

PolyJet™ Dental Materials

Advanced materials for superior digital dentistry and orthodontics.

The Stratasys Dental Series 3D printers use the superior accuracy, high precision and dimensional stability of PolyJet materials to create a range of dental appliances, restorations and models with consistency and exactness.

Biocompatible Clear (MED610™)

Transparent, bio-compatible material that is medically approved for temporary in-mouth placement.

Ideal for: Orthodontic appliances, delivery and positioning trays and surgical guides

Flexible Clear Biocompatible (MED625FLX™)

Flexible, biocompatible material that is certified for temporary in-mouth placement.

Ideal for: Orthodontic indirect bonding trays and implant gingival masks

Biocompatible 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

SUP711™

Gel like SUP711™ support material was specially designed to uphold overhangs and complicated geometries on DentaJet Series 3D printing LED curing process.

TrueDent™

FDA cleared (Class II) light-curable resin indicated for the fabrication of dental appliances. Compatible only with the J5 DentaJet.

Indicated for the fabrication of dental appliances including but not limited to removable full dentures and temporaries*.

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

| Property | Standard/ Procedure | Clear Biocompatible MED610 | Biocompatible VeroGlaze MED620 |
|---|--------------------------|----------------------------------|--------------------------------------|
| Tensile Strength (MPa) | D-638-03 | 50 – 65 | 55 – 65 |
| Elongation at break (%) | D-638-05 | 10 – 25 | 15 – 25 |
| Modulus of elasticity (MPa) | D-638-04 | 2,000 – 3,000 | 2,300 – 3,300 |
| Flexural Strength (MPa) | D-790-03 | 75 – 110 | 80 – 100 |
| Flexural Modulus (MPa) | D-790-04 | 2,200 – 3,200 | 2,300 – 3,200 |
| HDT 0.45 MPa (°C) | D-648-06 | 45 – 50 | 45 – 50 |
| HDT 1.82 MPa (°C) | D-648-07 | 45 – 50 | 45 – 50 |
| Izod Notched Impact (J/M) | D-256-06 | 20 – 30 | 20 – 30 |
| Water Absorption (%) | D-570-98 24HR | 1.1 – 1.5 | .1 – 1.5 |
| Tg (°C) | DMA E | 52 – 54 | 52 – 54 |
| Shore Hardness (D) | Scale D | 83 – 86 | 83 – 86 |
| Rockwell Hardness (scale M) | Scale M | 73 – 76 | 73 – 76 |
| Polymerized density (gr/cm ³) | ASTM D792 | 1.17 – 1.18 | 1.17 – 1.18 |
| Bio-compatibility | DIN EN ISO 10993 -1:2009 | Approved | Approved |
| Support Removal Type | – | WaterJet | WaterJet |

Dental Materials

| Property | Standard/ Procedure | MED625FLX |
|---|---------------------|-------------------------------|
| Tensile Strength (MPa) | D-412 | 3 – 5 |
| Elongation at break (%) | D-412 | 45 – 55% |
| Compressive Set (%) | D-395 | 0.5 – 1.5% |
| Shore Hardness (Scale A) | D-2240 | 73 – 77 |
| Tensile Tear Resistance (kg/cm) | D-624 | 8 – 12 |
| Polymerized density (gr/cm ³) | D-792 | 1.16 – 1.17 g/cm ³ |
| Bio-compatibility | EN ISO 10993-1 | Approved |
| Support Removal Type | – | WaterJet |

| TrueDent Specifications | | | |
|--------------------------------------|-------------|-------|------------------|
| Property | Requirement | Value | Compliance |
| Ultimate flexural strength (MPa) | ≥65 | ≥85 | ISO 20795-1:2013 |
| | ≥50 | ≥94 | ISO 10477:2020 |
| Flexural modulus (MPa) | ≥2000 | ≥2300 | ISO 20795-1:2013 |
| Water Sorption (µg/mm ³) | ≤32 | ≤32 | ISO 20795-1:2013 |
| | ≤40 | ≤28 | ISO 10477:2020 |
| Solubility (µg/mm ³) | ≤1.6 | ≤1.1 | ISO 20795-1:2013 |

| Part Number | Quantity | Product Description |
|-------------|-----------|----------------------------------|
| OBJ-09164 | Pack of 1 | TDM100, TrueDent Clear, 1.1 KG |
| OBJ-09165 | Pack of 1 | TDM120, TrueDent Cyan, 1.1 KG |
| OBJ-09166 | Pack of 1 | TDM130, TrueDent Magenta, 1.1 KG |
| OBJ-09168 | Pack of 1 | TDM110, TrueDent White, 1.1 KG |
| OBJ-09169 | Pack of 1 | TDM140, TrueDent Yellow, 1.1 KG |
| OBJ-09167 | Pack of 1 | TDS100, TrueDent Support, 1.1 KG |

For detailed material specifications of non-dental materials, please see the PolyJet Materials Data Sheet. All data provided herein, which is related to consumables, was collected from specific specimens and test conditions and is provided for information only. Characteristics may vary if different specimens and test conditions are applied. Unless expressly provided in writing, no warranties are made and warranties of merchantability or fitness for a particular purpose are expressly disclaimed.

* For a full list of indications please refer to the TrueDent brochure.

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