

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

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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.

USA - Headquarters

7665 Commerce Way
Eden Prairie, MN 55344, USA
+1 952 937 3000

ISRAEL - Headquarters

1 Holtzman St., Science Park
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000

stratasys.com

ISO 9001:2015 Certified

EMEA

Airport Boulevard B 120
77836 Rheinmünster, Germany
+49 7229 7772 0

ASIA PACIFIC

7th Floor, C-BONS International Center
108 Wai Yip Street Kwun Tong Kowloon
Hong Kong, China
+ 852 3944 8888



GET IN TOUCH.

www.stratasys.com/contact-us/locations

