

Biocompatible MED625FLX

MED625FLX™ is a transparent, flexible, biocompatible [PolyJet™](#) material certified for bodily contact. The material is designed for dental applications and is approved for permanent skin contact (greater than 30 days) and limited mucosal membrane contact (up to 24 hours). Typical dental applications include indirect bonding trays and gingiva masks.

MED625FLX has been evaluated and deemed acceptable for the following biological risks:

Test	Standard
Cytotoxicity	EN ISO 10993-5:2009
Irritation	EN ISO 10993-10:2013
Delayed-type hypersensitivity	EN ISO 10993-10:2013
Material mediated pyrogenicity (FDM USP <151>	EN ISO 10993-11:2009
Acute systemic toxicity	EN ISO 10993-11:2009
Chemical characterization	EN ISO 10993-18:2009
Allowable limits for leachable substances	EN ISO 10993-17:2009
USP plastic class VI	USP 34 <88>
Genotoxicity	EN ISO 10993-3:2014

Material Properties		
	ASTM	Value
Tensile Strength	D-412	435 – 725 psi (3 – 5 MPa)
Elongation at Break	D-412	45 – 55%
Compressive Set	D-395	0.5 – 1.5%
Shore Hardness (A)	D-2240	73 – 77 Scale A
Tensile Tear Resistance	D-624	8 – 12 Kg/cm (50 – 60 lb/in)
Polymerized Density	D-792	1.16 – 1.17 g/cm ³

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System Availability	Maximum Part Size (XYZ)	Layer Thickness Capability	Support Structure	Available Colors
Objet260 Dental™	255 x 252 x 18 mm* (10.0 x 9.9 x 0.71 in.)	28 microns (0.0011 in.)	SUP705™ (WaterJet removable)	Transparent
Objet260 Dental Selection™	255 x 252 x 18 mm* (10.0 x 9.9 x 0.71 in.)	28 microns (0.0011 in.)	SUP705 (WaterJet removable)	Transparent
Objet500 Dental Selection™	490 x 390 x 18 mm* (19.3 x 15.4 x 0.71 in.)	28 microns (0.0011 in.)	SUP705 (WaterJet removable)	Transparent

* Z-height for parts made with MED625FLX is limited to 18mm (0.71 in.) in DM mode and 40mm (1.57 in.) in HS mode.



Headquarters:

3-4 Innovation Way
North Staffs Business Park
Stoke-On-Trent
ST6 4BF
www.tritech3d.co.uk | info@tritech3d.co.uk

stratasys.com
ISO 9001:2008 Certified

