

# 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 <sup>3</sup>

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System Availability	Maximum Part Size (XYZ)	Layer Thickness Capability	Support Structure	Available Colors
<a href="#">Objet260 Dental™</a>	255 x 252 x 18 mm* (10.0 x 9.9 x 0.71 in.)	28 microns (0.0011 in.)	SUP705™ (WaterJet removable)	Transparent
<a href="#">Objet260 Dental Selection™</a>	255 x 252 x 18 mm* (10.0 x 9.9 x 0.71 in.)	28 microns (0.0011 in.)	SUP705 (WaterJet removable)	Transparent
<a href="#">Objet500 Dental Selection™</a>	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.

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