



# 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<br>(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<br>(50 – 60 lb/in) |
| Polymerized Density     | D-792  | 1.16 – 1.17 g/cm <sup>3</sup>   |



| System Availability                 | Maximum Part Size (XYZ)                                                       | Layer Thickness Capability | Support Structure               | Available Colors |
|-------------------------------------|-------------------------------------------------------------------------------|----------------------------|---------------------------------|------------------|
| <a href="#">J3 DentaJet™</a>        | 140 x 200 x 190 mm<br>(5.51 x 7.87 x 7.48 in.)<br>Up to 1.174 cm <sup>2</sup> | 18 microns<br>(0.0007 in.) | SUP711™<br>(Waterjet removable) | Transparent      |
| <a href="#">J5 DentaJet™</a>        | 140 x 200 x 190 mm<br>(5.51 x 7.87 x 7.48 in.)<br>Up to 1.174 cm <sup>2</sup> | 18 microns<br>(0.0007 in.) | SUP711™<br>(Waterjet removable) | Transparent      |
| <a href="#">J5 Digital Anatomy®</a> | 140 x 200 x 187 mm<br>(5.51 x 7.87 x 7.36 in.)                                | 18 microns<br>(0.0007 in.) | SUP710S™                        | Transparent      |
| <a href="#">J5 Medijet®</a>         | 140 x 200 x 187 mm<br>(5.51 x 7.87 x 7.36 in.)                                | 18 microns<br>(0.0007 in.) | SUP710S™                        | Transparent      |

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ISO 9001:2015

ISO 13485:2016



## MATERIALS DATA SHEET DENTAL

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