

Biocompatible Clear MED610

MED610 is a transparent, biocompatible PolyJet™ material medically approved for bodily contact. The material is designed for both medical and dental applications and is approved for permanent skin contact (more than 30 days) and limited mucosal membrane contact (up to 24 hours).

MED610 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
Genotoxicity	EN ISO 10993-3:2014
Chemical characterization	EN ISO 10993-18:2009
USP Plastic Class VI	USP 34 <88>

Property	Standard / Procedure	Value
Tensile Strength	D-638-03	50 – 65 MPa (7,252 – 9,427 psi)
Elongation at Break	D-638-05	10 – 25%
Modulus of Elasticity	D-638-04	2,000 – 3,000 MPa (290.1 – 435.1 ksi)
Flexural Strength	D-790-03	75 – 110 MPa (10,878 – 15,954 psi)
Flexural Modulus	D-790-04	2,200 – 3,200 MPa (319.1 – 464.1 ksi)
HDT @ 0.45 MPa	D-648-06	45 – 50 °C (113 – 122 °F)
HDT @ 1.82 MPa	D-648-07	45 – 50 J/m (113 – 122 °F)
Izod Notched Impact	D-256-06	20 – 30 (0.37 – 0.56 ft-lb/in)
Water Absorption	D-570-98 24HR	1.1 – 1.5%
Tg	DMA E	52 – 54 °C (126 – 130 °F)
Shore Hardness	Scale D	83 – 86 D
Rockwell Hardness Scale	Scale M	73 – 76 M
Polymerized Density	ASTM D792	1.17 – 1.18 (g/cm ³) (0.676 – 0.682 oz/in ³)
Biocompatibility	prEN ISO 10993-1:2017	Skin contact – permanent (>30 days) Mucous membrane – short term (up to 24 hrs)
Sterilization Methods	---	Gamma sterilization ¹ using a dose of 25–50 kGy Steam sterilization ² for four (4) minutes at 132 °C (270 °F) with fractionated pre-vacuum
Support Removal Type	---	WaterJet or soluble

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System Availability	Minimum Layer Thickness Capability	Support Structure	Available Colors
Objet30 Prime™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	Transparent
Objet30 Dental Prime™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	Transparent
Objet260 Dental™	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	Transparent
Objet Eden260VS™	16 microns (0.0006 in.)	SUP705 (WaterJet removable)	Transparent
Objet Eden260VS Dental Advantage™	16 microns (0.0006 in.)	SUP705 (WaterJet removable)	Transparent
Objet260/500™ Connex1	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	Transparent
Objet260/500 Dental Selection™	16 microns (0.0006 in.) (high quality)	SUP705 (WaterJet removable) SUP706B (soluble)	Transparent
Objet260/350/500™ Connex3	16 microns (0.0006 in.)	SUP705 (WaterJet removable) SUP706B (soluble)	Transparent
J735/J750	14 microns (0.00055 in.)	SUP705™ (WaterJet removable) SUP706B™ (soluble)	Transparent
J750™ Digital Anatomy™	14 microns (0.00055 in.)	SUP705™ (waterJet removable) SUP706B™ (soluble) GelMatrix™ (waterJet removable)	Transparent

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.

¹ Gamma radiation may result in color change in the part.

² Allow the parts to cool down to room temperature before removing them from the autoclave. Flash autoclave may result in part deformations and changes to the flexural strength.

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