

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. DISINFECTION (COLD) - Completely immerse in a 2% Chlorhexidine solution for 10 minutes at room temperature prior to surgery.

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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.

Stratasys Headquarters

7665 Commerce Way,
Eden Prairie, MN 55344
+1 800 801 6491 (US Toll Free)
+1 952 937-3000 (Intl)
+1 952 937-0070 (Fax)

Digital Dental Network
Pty Ltd
162 Pascoe Vale Road
Moonee Ponds
Victoria, Australia 3039
1300 550 956

1 Holtzman St., Science Park,
PO Box 2496
Rehovot 76124, Israel
+972 74 745 4000
+972 74 745 5000 (Fax)

