

Objet Bio-Compatible material (MED610) is ideal for applications requiring prolonged skin contact of over 30 days and short term mucosal-membrane contact of up to 24 hours. Objet Bio-Compatible material has 5 medical approvals including Cytotoxicity, Genotoxicity, Delayed Type Hypersensitivity, Irritation and USP Plastic Class VI* This material is used for Medical and Dental applications, 3D printing of dental and orthopedic surgical guides, checking the customized fit of surgical guides and delivery trays in the mouth, monitoring oral soft tissue during surgical guide procedures.



Bio-Compatible Transparent

Objet Bio-Compatible material (MED610™) is a rigid material featuring great dimensional stability and colorless transparency.

MED610					
Property	ASTM	Metric		Imperial	
Tensile Strength	D-638-03	Mpa	50-65	psi	7,250-9,450
Modulus of Elasticity	D-638-04	Mpa	2,000-3,000	psi	290,000-435,000
Elongation at Break	D-638-05	%	10-25%	%	10-25%
Flexural Strength	D-790-03	Mpa	75-110	psi	11,000-16,000
Flexural Modulus	D-790-04	Mpa	2,200-3,200	psi	320,000 - 465,000
Izod Notched Impact	D-256-06	J/m	20-30	ft lb/in	0.375-0.562
Shore Hardness	Scale D	Scale D	83	Scale D	83
Rockwell Hardness	Scale M	Scale M	73	Scale M	73
HDT at 0.45 Mpa	D-648-06	°C	45-50	°F	113-122
Water Absorption	D570-98 24 Hr	%	1.5-2.2	%	1.5-2.2
Typical achievable tolerance	-	First cm: +/- .127mm; Every cm after: +/- .025 mm		First Inch: +/- .005; Each Inch after +/- .001 in	

All data provided herein, which is related to consumables, was collected from specific specimens and tests 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.

At the core:**Advanced Polyjet Technology**

Connex500™ is the first 3D printing system that offers the ability to print parts and assemblies made of multiple model materials, with different mechanical or physical properties, all in a single build. By printing with Digital Materials, the Connex500™ allows you to print parts with specific Shore A values to match the values of the intended production materials. This capability opens up new opportunities, bringing you much closer to realizing the final product at an early stage, including feasibility testing and over-molding process simulation.

Real Accuracy

PolyJet technology uses a jetting head that slides back and forth along the X-axis to accurately build each layer at 16 microns (0.0006 inches) thick.

Get your benchmark on the future of manufacturing

Fine details. Smooth surface finishes. Accuracy. Strength. The best way to see the advantages of a Connex machine is to have your own part built on this system today!