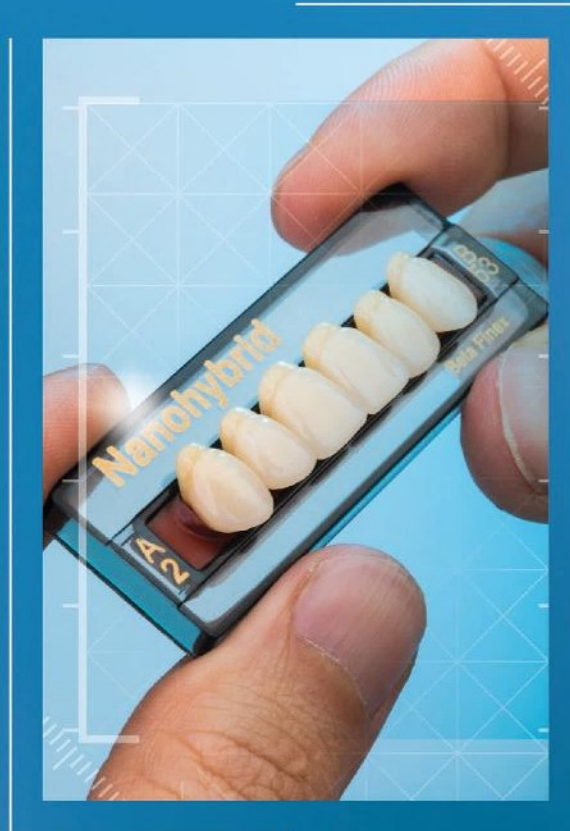
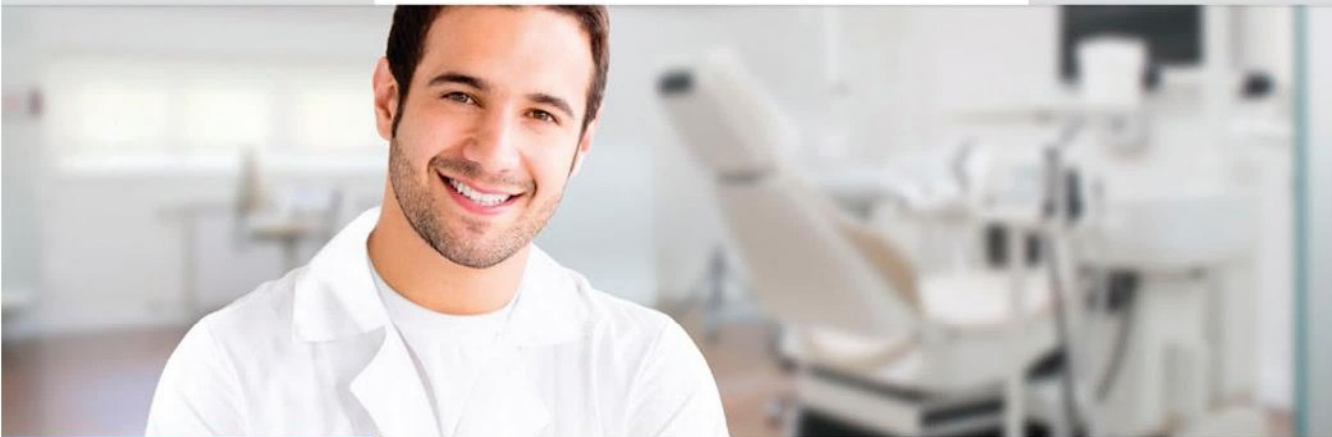


Tooth mould chart



BD Finex plus
BD Finex
BD Emeral
BD Isosid
BD Cristal
BD Novin
BD Beta Star
BD ECL



Beta Dent Company

Beta Dent is a complex of qualified and experienced experts and technicians which has been active in the field of artificial teeth and dental materials since 1983.

The company products include:

- Dentures made of Nano-hybrid
- Dentures made of resin and composite fillers.
- Dentures made of acrylic polymers

Today we are proud of being more experienced and more capable than yesterday, we have been able to represent authentic products from global companies and to present desirable products and services, also we have been able to make the most advanced set of artificial teeth in Iran.

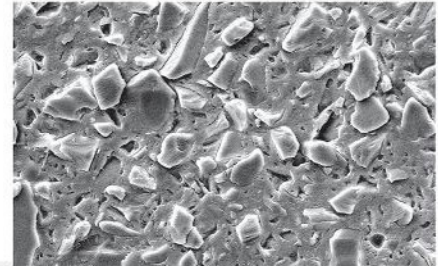
Finex Plus artificial teeth

5 layers – 6 cook

Finex Plus is based on Nano-silica raw materials reinforced with Silane monomer and organic glass particles of Dentin layers and also transparent containing Nano-silica particles of Dentin with polyurethane matrix which causes to increase hardness of tooth against abrasion impact resistance and to improve chemical properties against water absorption and dental plaque.

Elegant product like natural teeth.

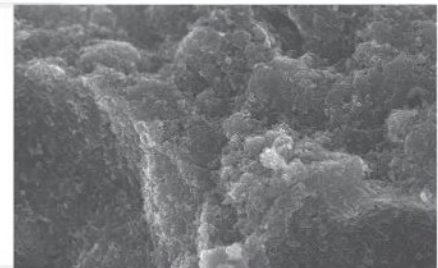
Microscopic picture of material structure ▼



Finex artificial teeth

4 layers – 5 cook

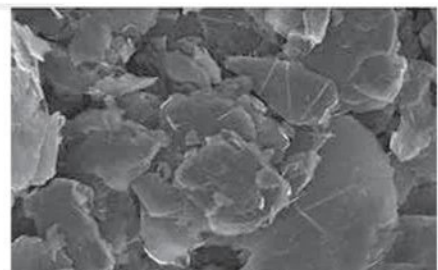
In the enamel and dentin layer which is made of Nano-hybrid materials that is the combination of polyurethane resin fillers with different particle size filler, copolymer combined with composite fillers improves mechanical and chemical properties and causes the tooth resistance to plaque deposit and abrasion.



Isosid artificial teeth

4 layers – 4 cook

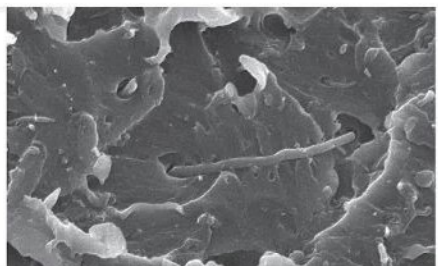
Isosid artificial tooth is made of polymer reinforced with cross-linked and composition of organic fillers and can be noted the abrasion resistance, tooth glossiness and strong bonding with the denture entire gum as the characteristics of Isosid tooth.



Crystal artificial teeth

3 layers – 3 cook

Crystal is made of unmixed mineral with particle size 1 to 20 microns with combining organic solvent and under pressure and high temperature conditions. The tooth base which connects to denture gum is made of the methyl-methacrylate polymer material.



Upper Anterior Teeth

Small Size



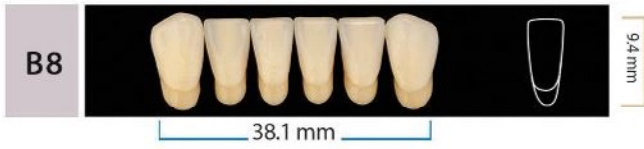
Medium Size



Large Size



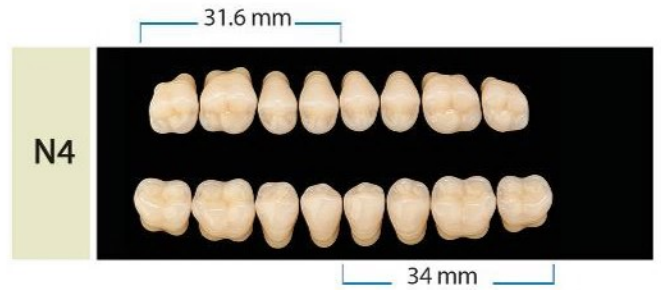
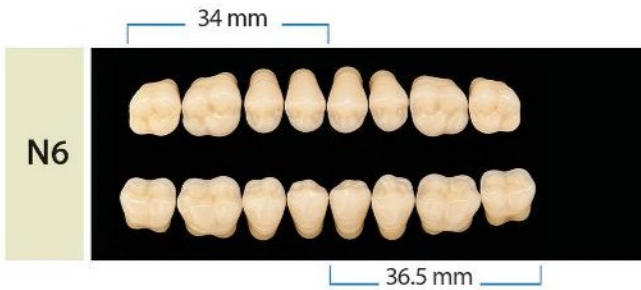
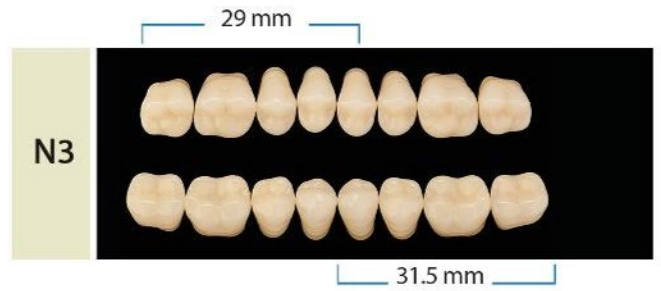
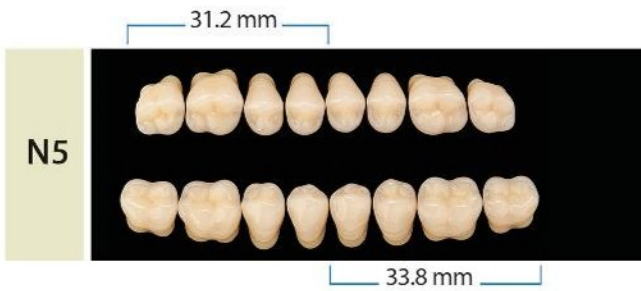
Lower Anterior Teeth



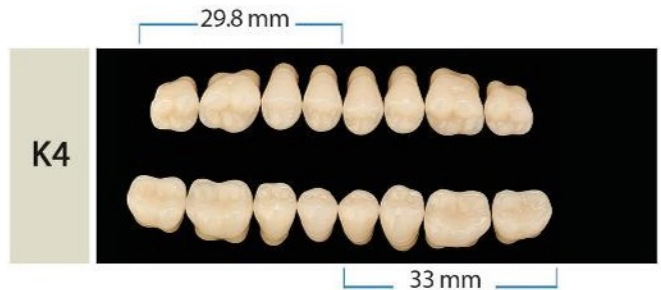


Upper And Lower Posterior Teeth

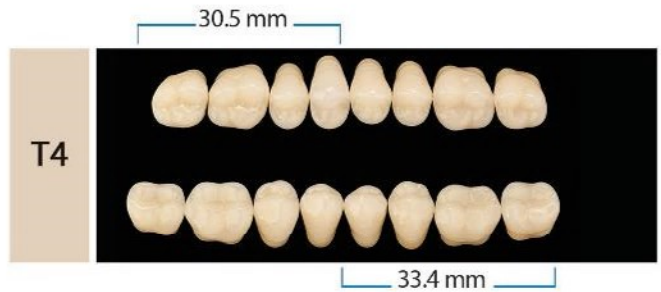
Normal Bite






Crossbite



Overbite



Mould chart related to selecting teeth is designed on page 10 of the catalogue in order to choose the appropriate size between the anterior and posterior teeth. The correct choice of size and shade based on Standard Criteria has a direct impact on the quality of treatment.

		
<p>K-type mould for crossbite</p>	<p>T-type mould for overbite</p>	<p>N-type mould for normal bit</p>
<p>The normal bite mould (based on the angle of class 1) Tooth line is perpendicular from curve profile of the anterior teeth to the occlusal surface.</p>	<p>In dental mould for overbite (bite of second distal), the mandible is in contrast with maxilla.</p>	<p>In the mould for cross-bite (class 3), protruding of mandible creates a relatively steep angle in comparison to occlusal surface.</p>

Choosing of posterior teeth

Posterior teeth are chosen based on buccolingual width and mesiodistal total width, cusp height from cervical and the slope of the cusp which applied based on the type of occlusion to rebuild mouth.

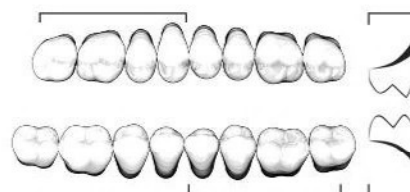
Artificial teeth should be set slightly higher than the anticipated dimension of occlusal and vertical in order to create dental contact between mandible and maxilla.

Application of posterior teeth

- Full dentures
- Partial denture and partial denture based on implant
- Denture based on implant
- Full denture with attachments

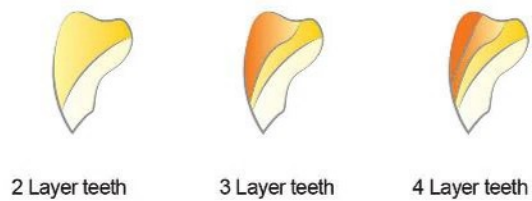
Biocompatibility and coordination with natural teeth

Completely normal form and appearance and also biocompatible with gum tissue and variety of shade and size are factors that make the Beta Dent's teeth unique.



Structure of artificial tooth in terms of layering

Artificial teeth produced in this unit is 2 layers, 3 layers and also 4 layers. As the number of layer repeat more in the polymerization stages, tooth structure will look more natural in shade appearance due to refraction of light.



Anatomic form of central Teeth

Face form is classified in three main groups of squares, triangles and ovals and these forms are diagnosed in the case of full face and by taking a vertical imaginary line along the face. Imaginary line should be passed from temples area, outer edges of cheek and ending angle of the mandible.



▼ Triangular tooth mould

If the straight line is inclined from the bottom to the center of the body, the face is triangular.



● Oval tooth mould

If curve line is toward the outside with convexity, the face is spherical or oval.



■ Square tooth mould

If the pass line from the edge is perpendicular, the face is square form.

Anterior teeth

Choosing the size and shade of tooth depends on patient physical and biological factors. At first the anterior teeth will be chosen then the posterior teeth. Dentist should gather biomechanical information so that the patient needs are met. Tooth should be set in perfect harmony with intraoral muscle and should be in constant contact with each other.



Physical indicators

- We meter the distance between the center of eyes in millimeter and divide by number of 6/66 to get approximate width of upper central Tooth.
- The distance between the outer edges of the nose has direct relationship with the full width of anterior teeth.

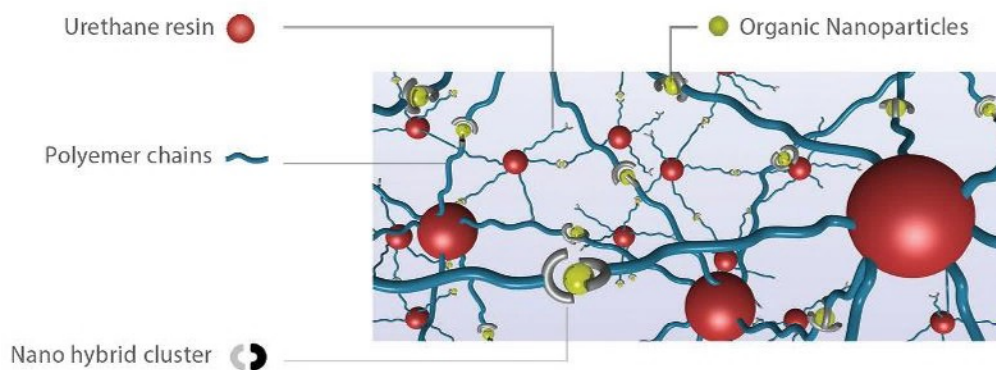
From distal of canine to distal of other canine, the number to multiply for this criterion is 1/26 that is gained width of maxillary anterior teeth by multiplying the distance or the lateral edges of the nose in millimeter by the 1/26.

Beta Dent products classification according to structure and ingredient

Product name	Number of cooking	Number of layers	Ingredient
Finex Puls	6 cooks	5 layers	Nano-silica base, the newest generation of nono-composite
Finex	5 cooks	4 layers	Nono-hybrid with combination of co-polymers and composite resins
Isosid	4 cooks	4 layers	Reinforced polymer with cross-linked monomers and combination of mineral filler
Crystal	3 cooks	3 layers	Composite resin with organic fillers with size less than 10 microns
Novin Vit	3 cooks	3 layers	Polymethyl methacrylate with a particle size of approximately 50 microns strengthened by cross-linked
Beta Star	2 cooks	2 layers	Polymethyl methacrylate and methacrylate monomers

Nano-hybrid tooth

The new generation of dental materials is based on (poly) urethane resin, multifaceted polymers and also Nano-fillers filler. Important characteristics of this generation of artificial teeth are resistance to ahtasion, with no color change and also translucent and diffract properties in layers of tooth that provide beautiful and natural look. Hybrid Nano-fillers are clusters with very fine particle size and dense that synthesized with monomers and silane to promote high resistance to breakage, cracking and also to increase polish ability.





What is the associate laboratory or accredited lab?

Manufacturers are required to set up quality testing determined by the National Institute of Standards for products subject to mandatory standards and by complying with standard methods are able to insert the national standard logo on the processed product.

Standard institute experts act to sampling from the production line and warehouse monthly and carry out chemical and mechanical tests and check the results of qualitative tests and if it is approved the product is supplied.

Companies that have R and D department, and also have equipped and advanced laboratory and the ability to test and provide test report by certified experts in charge of quality control, are appointed as associate laboratory.

Beta Dent Associate Laboratory (Accredited Lab) as the reference test is capable to test and to control the quality of artificial teeth manufactured in Iran and also imported artificial teeth and it has continued cooperation with experts from the National Institute of Standards and Institutes for Science and technology.

Quality control tests for artificial teeth

Quality Control Division test their products using devices such as (gas) chromatography, multifunctional device for bending and stretching test (universal), impact device and spectrophotometer device and also UV (ultraviolet).

Test to assess product quality issues includes:

- Color stability
- Dimensional stability
- Free of porosity
- Flexural strength
- Water absorption and solubility
- The remaining monomer
- The cracking
- Re-polishing after bringing out of flask
- Impact resistance
- Connecting the tooth base to the gum polymer



Mould Chart

Posterior Teeth			Anterior Upper & Lower	
T-type Over bite	K-type Cross bite	N-type Normal bite	Anterior Lower	Anterior Upper
T4	K4	N3	B3	B11
T4	K4	N5	B5	B12
T4	K4	N3/N5	B5	B13
T4	K4	N5	B6/B7	B14
T4	K4	N4/N5	B7	B15
T4	K4	N6	B7	B16
T4	K4	N6	B7	B17
T4	K4	N5	B5/B7	B66
T4	K4	N4/N5	B5/B7	B68
T4	K4	N5	B5	B40
T4	K4	N3/N5	B3/B5	B41
T4	K4	N5	B5	B42
T4	K4	N3/N5	B3	B44
T4	K4	N5	B5	B46
T4	K4	N5	B5	B48
T4	K4	N3	B1	B50
T4	K4	N3	B2-B3	B52
T4	K4	N3	B2	B53
T4	K4	N5	B5/B7	B56



Beta Dent , the producer of False Teeth and dental material



With R & D department and by applying modern methods , modern equipment and nano-materials, Beta Dent has been able to improve the quality of its products and this will further meet the needs of its customers.

Four decades of efforts in this industry have made the company a complete and experienced organization whose commitment is to promote the health of the dental community.

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