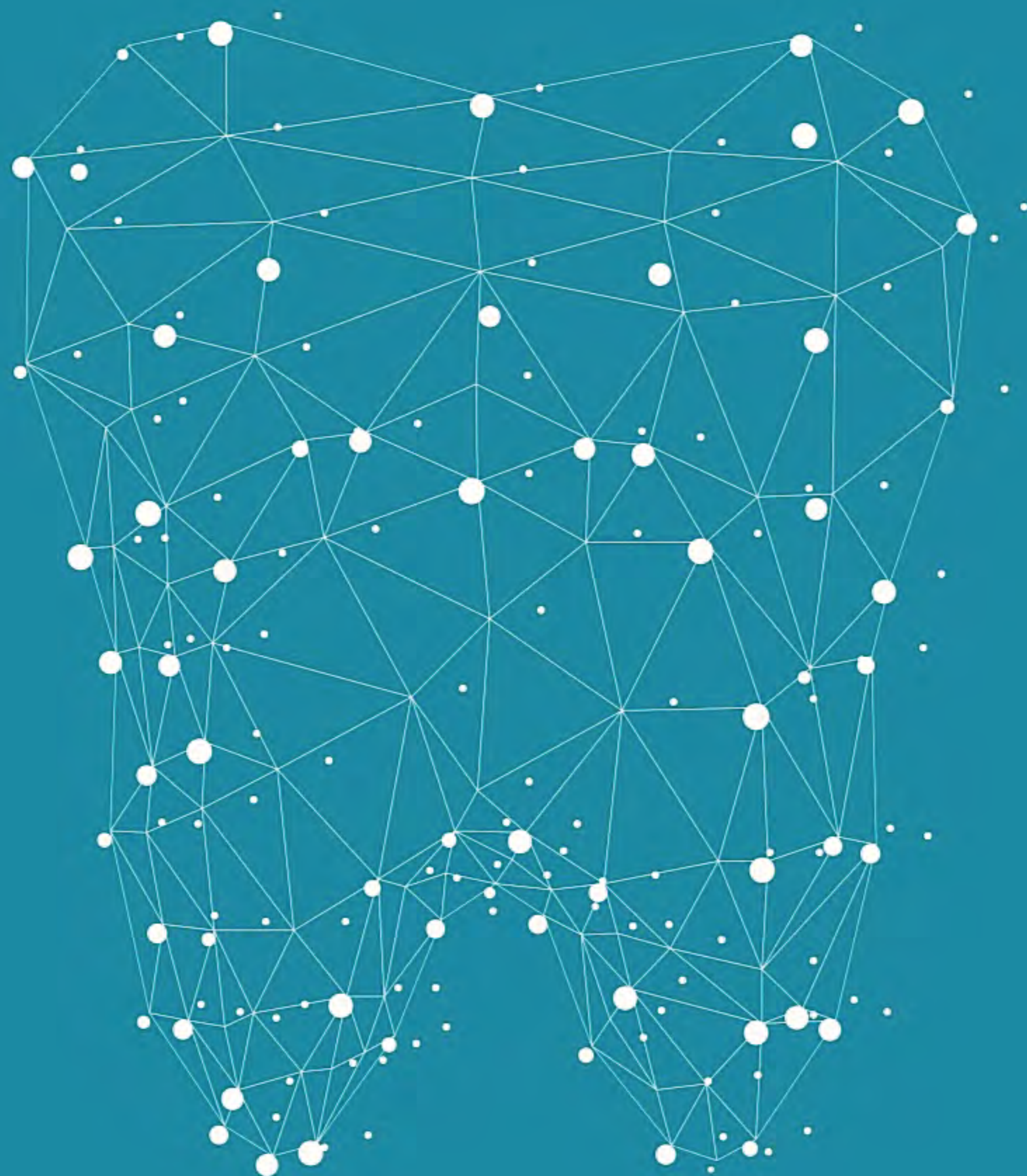




Better trust Better smile



PEEK Denture

Create New Denture Generation



Company Profile

Bloomden Bioceramic Co., Ltd ----Bloomden is the first class dental materials manufacturer. Bloomden is located in Changsha, China. The company focuses on the research and development of high-performance dental zirconia, polyetheretherketone (PEEK), and other dental materials in applications. We have a manufacturing center of over 8000 square meters and a professional R&D team, which can quickly and economically ideal dental restoration materials for customers. we can provide you with a wide range of high-quality products and professional services with our own complete supply chain. Bloomden Bioceramic Co., Ltd --- Bloomden



Material Introduction---PEEK

PEEK has been used as an implant material in human medical repair (finger prostheses, intervertebral discs, hip prostheses) for over 35 years. The advantage of PEEK is the material's high biocompatibility, which allow it to fuse with bone. In addition, its material mechanism performance are similar to bone material properties.



Data Comparison Table

Characteristics	PEEK	TC-PEEK	Human bones	Zirconia	PMMA
Density	1.32	1.48	1.8	6.0	1.2
Bending strength	163	210	149	1200	75
Bending modulus	4.0	5.0	17	210	2.8

1

Application of PEEK in Dental Restoration

► Removable Partial Denture Clasp Assemblies and Braces Material

In order to obtain a better retention force, most of the clasp and braces materials used clinically are made of metal, but their quality is not comfortable, and the inherent metal color does not meet the aesthetic requirements. PEEK has low density, light weight, white color and not easy to change color, which can make up for the lack of beauty and comfort of metal clasp assemblies.



► Fixed Denture Material

The average failure load of the implanted three-unit fixed bridge made of PEEK material is (1430+262) N, which can withstand the occlusal force of the molar area. In addition, compared with traditional ceramic materials, PEEK is lighter and closer to the mechanical properties of dentin and enamel. As a dental substitute material, it can better restore the mechanical properties of dental tissue.

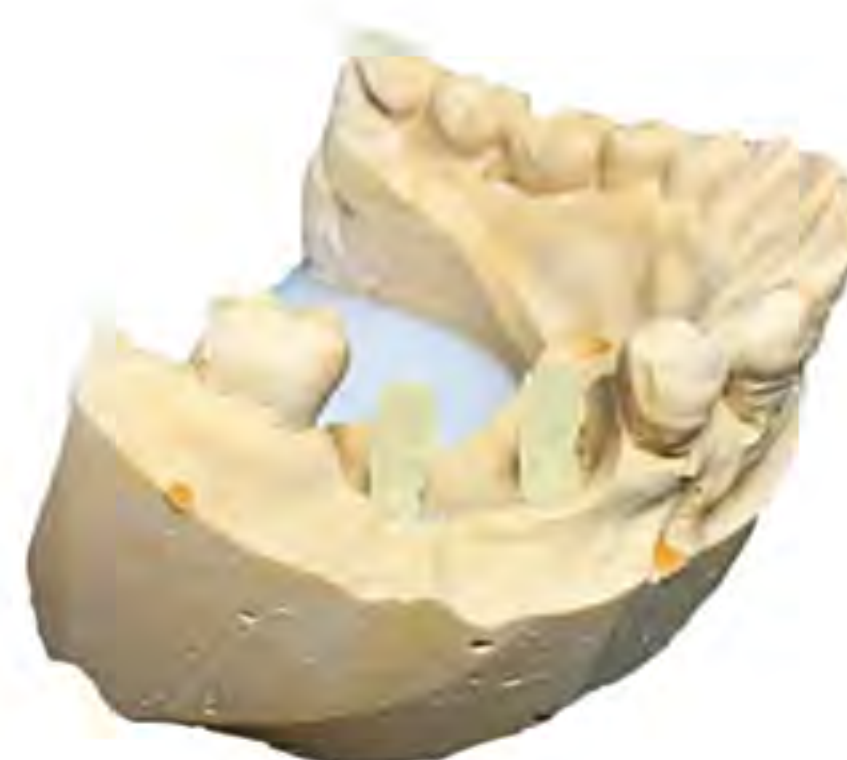


2

Application of PEEK in Dental Implant

► Abutments

Titanium and zirconia are the main materials currently used for dental abutments. Although titanium abutments and zirconia abutments have good elastic modulus, they will directly transfer the maximum chewing force to the implant and jaw, which is not conducive to osseointegration. PEEK dental material is white and has a low elastic modulus, which can buffer the chewing force to a certain extent.



► Crown

PEEK is light and has more advantageous when repairing dentition defects or missing dentitions with a large number of missing teeth. Replacing metal crowns and all-ceramic crowns with PEEK crowns with smaller elastic modulus will play a certain buffering role.



► Bridge

The good hyposensitivity of PEEK bridges can effectively prevent allergic reactions in patients.



98 System



【Specification】

98 × 12	98 × 14	98 × 16	98 × 18
98 × 20	98 × 22	98 × 25	Others

95 System



【Specification】

95 × 12	95 × 14	95 × 16	95 × 18
95 × 20	95 × 22	95 × 25	Others

AG System



【Specification】

98 × 12	98 × 14	98 × 16	98 × 18
98 × 20	98 × 22	98 × 25	Others

【Specification】

140 × 150 × 14	140 × 150 × 16	140 × 150 × 18
140 × 150 × 20	140 × 150 × 22	140 × 150 × 25

Characteristic Comparison Table

	PEEK	Porcelain White	Tooth Yellow	Gum Color
Color				
Density	1.3	1.48	1.48	1.48
Bending strength	210	210	208	208
Bending modulus	4.0	5.0	4.9	4.9
Impact strength	200	160	165	165

PEEK Granule System



【Special Service】 We can customize other thickness specifications according to customer requirements

PEEK Advanced application supplier



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