Zeniva® ZA-500
polyetheretherketone

Zeniva® ZA-500 is a grade of polyetheretherketone (PEEK) offered for use in implantable devices.

The manufacturing facility for Zeniva® PEEK in Alpharetta, GA is ISO 13485 registered and the relevant aspects of current Good Manufacturing Practices are also applied. Our biomaterial manufacturing processes are carefully validated, and enhanced controls provide product traceability. In addition, all materials are tested in a lab that is ISO 17025 accredited. This product meets the requirements of the current version of ASTM F 2026.

Zeniva® ZA-500 is offered as resin pellets and fabricated forms such as rods and plates. The chemical, physical, and mechanical properties of finished parts are related to the processes utilized in producing the finished part (for example, molding, machining, annealing, sterilization, etc).

An FDA MAF is available and a PMDA MF is available in Japan.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• North America
Uses	• Body Implants	• Medical/Healthcare Applications
Agency Ratings	• ASTM F2026 • ISO 10993	• ISO 13485
Forms	• Pellets • Plate	• Rod

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.29		ASTM D792

Mechanical	Typical Value	Unit	Test method
Tensile Modulus	3600	MPa	ASTM D638
Tensile Strength (Yield)	95.0	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	5.2	%	
Break	35	%	
Flexural Modulus	4000	MPa	ASTM D790
Flexural Strength (Yield)	150	MPa	ASTM D790

Impact	Typical Value	Unit	Test method
Notched Izod Impact	90	J/m	ASTM D256

Thermal	Typical Value	Unit	Test method
Glass Transition Temperature	150	°C	ASTM D3418
Peak Melting Temperature	340	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	290	°C	ASTM D3418

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Fill Analysis	Typical Value	Unit	Test method
Melt Viscosity (400°C, 1000 sec^-1)	430	Pa·s	ASTM D3835

Additional Information	Typical Value	Unit	Test method
Cytotoxicity	Pass		ISO 10993:5
Physiochemical Testing	Pass		ISO 10993:18

Notes
Typical properties: these are not to be construed as specifications.

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Safety Data Sheets (SDS) are available by emailing us or contacting your sales representative. Always consult the appropriate SDS before using any of our products.

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