Zeniva® ZA-520 Resin
polyetheretherketone

Zeniva® ZA-520 is a grade of polyetheretherketone (PEEK) offered for use in implantable devices. This grade of Zeniva® PEEK is an Image Contrast grade, offering a level of opacity for imaging techniques such as MRI, CT and X-ray. 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.

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.

Zeniva® ZA520 is available in resin pellets and rods.

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	• Rod

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.35		ASTM D792

Mechanical	Typical Value	Unit	Test method
Tensile Modulus	> 3300	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	> 90.0	MPa	
Break	> 70.0	MPa	
Tensile Elongation			ASTM D638
Yield	> 4.0	%	
Break	> 5.0	%	
Flexural Modulus	> 3000	MPa	ASTM D790
Flexural Strength (Yield)	> 110	MPa	ASTM D790

Impact	Typical Value	Unit	Test method
Notched Izod Impact	> 50	J/m	ASTM D256

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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

Fill Analysis	Typical Value	Unit	Test method
Melt Viscosity (400°C, 1000 sec^-1)	440	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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