Zeniva® ZA-600 CF10
polyetheretherketone

Zeniva® ZA-600 CF10 is a carbon-fiber reinforced grade of polyetheretherketone (PEEK) offered for use in implantable devices. The manufacturing facility for Zeniva® PEEK 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® ZA-600 CF10 is offered as compounded pellets.

An FDA MAF is available.

General		
Material Status	• Commercial: Active	
Availability	• Asia Pacific • Europe	• North America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight	
Uses	• Body Implants	• Medical/Healthcare Applications
Agency Ratings	• ISO 10993	• ISO 13485
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Typical Value	Unit	Test method
Density / Specific Gravity	1.33		ASTM D792

Mechanical	Typical Value	Unit	Test method
Tensile Modulus	10200	MPa	ASTM D638
Tensile Strength (Break)	160	MPa	ASTM D638
Tensile Elongation (Break)	3.3	%	ASTM D638
Flexural Modulus	8820	MPa	ASTM D790
Flexural Strength - (Break)	253	MPa	ASTM D790

Impact	Typical Value	Unit	Test method
Notched Izod Impact	53	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

Fill Analysis	Typical Value	Unit	Test method
Melt Viscosity (400°C, 1000 sec^-1)	247	Pa·s	ASTM D3835

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

Injection	Typical Value	Unit
Drying Temperature - Desiccant Dryer	149	°C
Processing (Melt) Temp	380 to 400	°C
Mold Temperature	175 to 205	°C

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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