KadeCore™- PEEK

Implantable-Grade PEEK

Extruded shapes for further machining into orthopaedic implant components and Other Medical Applications

MATERIAL Polyether Ether Ketone (PEEK)	**FORM** Extruded rods	**CONDITION** Non-sterile	**INTENDED USE** Orthopaedic implants and Other Medical Applications

PRODUCT OVERVIEW

Implantable-grade PEEK extruded shapes are semi-finished polymer materials intended for further machining into orthopaedic implant components. PEEK offers a combination of mechanical strength, stiffness, dimensional stability and thermal performance suitable for applications where material properties and device-specific requirements must be carefully evaluated.

Kadeswara Healthcare offers PEEK extruded rods for further machining into orthopaedic implant components.

TYPICAL APPLICATIONS

Joint replacement components	Spinal fusion cages	Dental implants
Cardiovascular implants	Drug delivery systems	Cranio-maxillofacial (CMF) surgical components

PRODUCT INFORMATION

Product	Implantable-Grade PEEK Extruded Rods
Material	Polyether Ether Ketone (PEEK)
Manufacturing Method	Extrusion Method
Standard	ASTM F2026
Available Rod Diameter	Ø20–70 mm
Standard Rod Length	Up to 500 mm
Colour	Natural (beige)
Sterile Condition	Non-Sterile
Intended Use	Orthopaedic Implants

Note: Product dimensions and colour availability are subject to the applicable product specification and order requirements.

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Material Performance

Representative technical data for KadeCore™-PEEK

PROPERTIES

PROPERTY	TEST METHOD	UNITS	ASTM F2026	TEST RESULTS
Tensile Strength at Yield	ASTM D638	MPa	90 Min	115
Tensile Strength at Break	ASTM D638	MPa	70 Min	80
Elongation at Break	ASTM D638	%	5 Min	7
Flexural Strength	ASTM D790/ISO178	MPa	110 Min	170
Flexural Modulus of elasticity	ASTM D790/ISO178	GPa	3 Min	3.6
Impact Strength Notched Izod	ASTM D256	J/m	50 Min	85
Density	ASTM D792	kg/m3	1280-1320	1305
Melting Temperature	ASTM D3418	° C	320-360	340
Recrystallization Temperature	ASTM D3418	° C	260-320	289
Glass Transition Temperature	ASTM D3418	° C	125-165	151

STANDARDS & PRODUCT POSITIONING

ASTM F2026	Standard specification reference for PEEK polymers for surgical implant applications
Product form	Extruded Rods intended for further machining
Sterility	Non-sterile product

ENGINEERED FOR FURTHER PROCESSING
PEEK extruded shapes are supplied as semi-finished material for machining into orthopaedic implant components and other medical Applications.

KADESWARA HEALTHCARE PRIVATE LIMITED

Medical-grade polymer solutions for orthopaedic implant applications. Kadeswara Healthcare supplies semi-finished polymer shapes intended for further machining by medical-device manufacturers.

The art of resilience on implants.

Technical Data Sheet | KadeCore™ PEEK | Revision 00

Note: The reported values were obtained by testing specimens machined from PEEK extruded rod samples under specified laboratory conditions. These results represent the tested specimens and may not necessarily reflect the properties of every supplied rod or production batch. Typical values are provided for technical reference and are not guaranteed product acceptance criteria unless otherwise specified.