

VESTAKEEP® MC 4420 R

Polyetheretherketone

Evonik Industries AG

Message:

VESTAKEEP® MC4420 R are rods based on medical grade VESTAKEEP® MC4420 G resin. The material is pigmented white and produces good aesthetics in dental applications. Rods are available in different diameters and lengths:
Diameters from 6 to 100mm
Diameters 10mm and below are also available with tight h9 tolerances.
Standard lengths are
from 6 to 25mm 3000mm
from 30mm to 60mm 2000mm
from 70mm to 100mm 1000mm
Customized dimensions upon request
Biocompatibility
Medical grade VESTAKEEP® resins and rods are compliant with the ASTM F2026 specification. They have been formulated for high biocompatibility, and in vitro cytotoxicity tests according to DIN EN 10993-5 are conducted on every lot to ensure a high level of safety.
VESTAKEEP® MC4420 R is intended for dental applications which remain in contact with the human body for up to 180 days.

General Information	
Features	Biocompatible
Uses	Medical/Healthcare Applications
Agency Ratings	ISO 10993 Part 10
	ISO 10993 Part 5
	USP Class VI
Appearance	White
Forms	Granules
	Powder

Physical	Nominal Value	Unit	Test Method
Water Absorption (Saturation, 23°C)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	4100	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	95.0	MPa	
Break	75.0	MPa	
3.5% Strain	150	MPa	
Tensile Strain			ISO 527-2
Yield	4.7	%	
Break	> 20	%	
Flexural Modulus	4500	MPa	ISO 178
Flexural Stress	175	MPa	ISO 178
Compressive Strength			ISO 604

--	150	MPa	
5% Strain	110	MPa	
2% Strain	40.0	MPa	
1% Strain	12.0	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	7.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ¹	152	°C	ISO 11357
Melting Temperature ²	335	°C	DSC
NOTE			
1.	2nd heating, midpoint		
2.	2nd heatingISO 11357		

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Recommended distributors for this material

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