VESTAKEEP® Care M20G

Polyetheretherketone

Evonik Industries AG

Message:

The good biocompatibility, processability and the option to pigment make the VESTAKEEP® Care-Grades an ideal material for the fabrication of medical devices with short time contact to human blood, tissue or bone for up to 30 days.

Because of their combination of outstanding mechanical properties and their excellent resistance to common cleaning and sterilizing processes,

VESTAKEEP® Care polymers are designed to develop your next generation medical devices. Key properties are

Excellent biocompatibility

Outstanding biostability

Good resistance to commonly used sterilization methods like autoclaving and others

Resistance to high-energy radiation such as gamma rays or X-rays

X-ray transparency, no metal-typical shadows or artefacts in radiographs.

Good combination of mechanical strength, wear resistance and impact resistance makes PEEK a good choice for high strength medical devices Good dimensional stability allows for manufacturing of high-precision parts

Good electrical properties, especially electrical insulation, is important for medical equipment - for example HF endoscopes

General Information				
Features	Biocompatible			
	Good Dimensional Stability Good Electrical Properties			
	Good Processability			
	Good Sterilizability			
	Good Strength			
	Good Wear Resistance			
	Radiation (Gamma) Resista	nt		
	X-Ray Transparent			
Uses	Medical/Healthcare Applications			
Agency Ratings	ASTM F 756-08			
	ISO 10993 Part 10			
	ISO 10993 Part 11			
	ISO 10993 Part 5			
	USP Class VI			
Forms	Pellets			
	Rod			
Processing Method	Compression Molding			
	Extrusion			
	Injection Molding			
Physical	Nominal Value	Unit	Test Method	

al Value	cm³/10min % % Unit MPa MPa	ISO 1133 ISO 294-4 Test Method
al Value	% % Unit MPa	ISO 294-4 Test Method
al Value	% Unit MPa	Test Method
al Value	% Unit MPa	
al Value	Unit MPa	
al Value	MPa	
		ICO 527 2
	MPa	ISO 527-2
		ISO 527-2
		ISO 527-2
	%	
	%	
al Value	Unit	Test Method
		ISO 179/1eA
	kJ/m²	
	kJ/m²	
		ISO 179/1eU
ak		
ak		
al Value	Unit	Test Method
	°C	ISO 306/A
	°C	ISO 306/B
	°C	ISO 11357-3
	cm/cm/°C	ISO 11359-2
al Value	Unit	Test Method
4	ohms	IEC 60093
5	ohms·cm	IEC 60093
	kV/mm	IEC 60243-1
		IEC 60250
		IEC 60112
	V	
	V	
al Value	Unit	Test Method
		UL 94
eating		
	4 5 al Value	4 ohms 5 ohms·cm kV/mm V V V al Value Unit

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