

产品说明

PEEK-CLASSIX™ polymer from Invibio® is a high performance, biocompatible thermoplastic designed for medical device applications requiring blood or tissue contact of less than 30 days. A polyaryletherketone, PEEK-CLASSIX polymer is one of the most chemically resistant polymers available and exhibits a superior combination of strength, stiffness and toughness making it ideally suited for medical device applications.

The polymer can be processed through conventional techniques including injection molding, extrusion, machining and compression molding allowing medical device manufacturers broad design and manufacturing flexibility.

PEEK-CLASSIX polymer is designed for use in medical devices that require short term contact with blood or tissue of less than 30 days. It is not for use in devices designed for long term implantation or requiring contact with blood or tissue of greater than 30 days.

总体

材料状态	已商用：当前有效		
供货地区	北美洲	欧洲	
	尺寸稳定性良好	可用环氧乙烷消毒	耐磨损性良好
	高压灭菌	可用蒸汽消毒	生物兼容性
性能特点	抗撞击性，良好	良好的强度	水解稳定
	可辐射消毒	良好杀的菌性	
	可加工性，良好	耐化学性良好	
	Disposable Hospital Goods	实验室器具	
用途	薄壁部件	液体处理	医疗器械
	管道	医疗/护理领域的应用	
	ISO 10993	ISO 10993 Part 5	
机构评级	ISO 10993 Part 10	ISO 10993-Part 1	USP 第VI类



外观	黑色	可用颜色
形式	颗粒料	
	机器加工	压缩模塑
加工方法	挤出	注射成型

物理性能	额定值	单位制	测试方法
比重		1.3 g/cm ³	ASTM D792
机械性能	额定值	单位制	测试方法
拉伸应力 (屈服)		95 MPa	ISO 527-2
拉伸应变 (断裂)	> 25	%	ISO 527-2
弯曲模量		4000 MPa	ISO 178
弯曲强度		154 MPa	ISO 178
冲击性能	额定值	单位制	测试方法
悬臂梁缺口冲击强度		7.2 kJ/m ²	ISO 180