

医疗级PEEK 450GL30 玻璃纤维30% 航天航空配件

产品名称	医疗级PEEK 450GL30 玻璃纤维30% 航天航空配件
公司名称	东莞市文腾塑胶原料有限公司
价格	236.00/千克
规格参数	威格斯:玻璃纤维30% 防火V0级 航天航空配件 450GL3:低摩擦系数 高强度 好的消毒性 耐化学性 英国:非特定食品应用医疗/护理用品
公司地址	广东省东莞市樟木头镇先威68号塑金塑胶商业中 心14栋203室
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产品详情

VICTREX PEEK 450GL30

Polyetheretherketone

Victrex plc

30% 玻璃纤维增强材料

产品说明：

High performance thermoplastic material, 30% glass fibre reinforced PolyEtherEtherKetone (PEEK), semi crystalline, granules for injection moulding and extrusion, standard flow, FDA food contact compliant, colour natural/beige.Applications for higher strength in a static system. Low coefficient of thermal expansion. Chemically resistant to aggressive environments, suitable for sterilisation for medical and food contact applications.

物性信息：

基本信息黄卡编号

E161131-224307

填料/增强材料

玻璃纤维增强材料, 30% 填料按重量

特性

半结晶

低摩擦系数

高强度

好的消毒性

耐化学性良好

食品接触的合规性

用途

非特定食品应用

医疗/护理用品

机构评级

FDA 食品接触, 未评级

MIL P-46183

外观

米黄色

自然色

形式

颗粒

加工方法

挤出

注射成型

物理性能额定值单位制测试方法密度1.51g/cmISO 1183Spiral Flow 1内部方法 -- 28.50cm内部方法 -- 341.0cm内部方法收缩率 垂直接流动方向: 190 ° C 40.90% 流动方向: 190 ° C 50.30%ISO 294-4吸水率ISO 62 23 ° C, 24 hr, 3.20 mm0.040%ISO 62 平衡, 23 ° C, 3.20 mm, 50% RH0.30%ISO 62硬度额定值单位制测试方法肖氏硬度 (邵氏 D, 23 ° C)88ISO 868机械性能额定值单位制测试方法拉伸模量 (23 ° C)11800MPaISO 527-2拉伸应力ISO 527-2 断裂, 23 ° C180MPaISO 527-2 断裂, 125 ° C115MPaISO 527-2 断裂, 175 ° C60.0MPaISO 527-2 断裂, 275 ° C35.0MPaISO 527-2拉伸应变 (断裂, 23 ° C)2.7%ISO 527-2弯曲模量 (23 ° C)11300MPaISO 178弯曲应力ISO 178 23 ° C270MPaISO 178 125 ° C190MPaISO 178 175 ° C80.0MPaISO 178 275 ° C50.0MPaISO

178压缩应力ISO 604 23 ° C250MPaISO 604 120 ° C160MPaISO
604 200 ° C55.0MPaISO
604冲击性能额定值单位制测试方法简支梁缺口冲击强度 (23 ° C)8.0kJ/mISO
179/1eA简支梁无缺口冲击强度 (23 ° C)55kJ/mISO 179/1U悬臂梁缺口冲击强度 (23 ° C)10kJ/mISO
180/A无缺口伊佐德冲击强度 (23 ° C)60kJ/mISO 180热性能额定值单位制测试方法热变形温度 (1.8
MPa, 未退火)328 ° CISO 75-2/A玻璃转化温度143 ° CISO 11357-2熔融温度343 ° CISO
11357-3线形热膨胀系数ISO 11359-2 流动 : > 143 ° C1.8E-5cm/cm/ ° CISO 11359-2 流动 : <
143 ° C1.8E-5cm/cm/ ° CISO 11359-2 横向 : < 143 ° C4.5E-5cm/cm/ ° CISO 11359-2 横向 : >
143 ° C1.1E-4cm/cm/ ° CISO 11359-2比热 (23 ° C)1700J/kg/ ° C DSC导热系数 (23 ° C)0.30W/m/KISO
22007-4RTI Elec240 ° CUL 746RTI Imp220 ° CUL 746RTI240 ° CUL
746电气性能额定值单位制测试方法体积电阻率1.0E+16ohms · cmIEC 60093介电强度 (2.00
mm)25kV/mmIEC 60243-1介电常数 (23 ° C, 2 MHz)3.20IEC 60250耗散因数 (23 ° C, 1 MHz)5.0E-3IEC
60250漏电起痕指数150VIEC 60112可燃性额定值单位制测试方法灼热丝易燃指数 (2.00 mm)960 ° CIEC
60695-2-12充模分析额定值单位制测试方法熔体粘度 (400 ° C)560Pa · sISO
11443注射额定值单位制干燥温度120 到 150 ° C干燥时间3.0 到 5.0hr料斗温度<
100 ° C料筒后部温度365 ° C料筒中部温度370 到
375 ° C料筒前部温度380 ° C射嘴温度385 ° C模具温度180 到 200 ° C注射说明Runner: Die / nozzle >3mm,
manifold >3.5mmGate: >2mm or 0.5 x part thickness备注1 .模具温度: 190 ° C, 熔体温度: 385 ° C2 .1 mm3 .3
mm4 .385 ° C nozzle,5 .385 ° C nozzle

Medical-Grade PEEK 450GL30 Glass Fiber 30% Aerospace Components from Victrex, UK: A High-Strength, Low-Friction, and Chemically Resistant Solution for Medical and Aerospace Applications
Medical devices and aerospace components require materials that can withstand extreme environments, resist chemicals, and maintain their integrity despite repeated exposure to harsh conditions. Victrex, a UK-based company, offers a high-performance material that meets these requirements: Medical-Grade PEEK 450GL30 Glass Fiber 30% Aerospace Components. This product is a semi-crystalline thermoplastic that combines the strength of glass fiber with the chemical resistance, low friction coefficient, and good disinfection properties of PEEK. It is specifically designed for aerospace components, medical devices, and other applications that require a material with high strength and excellent resistance to chemicals and environmental factors. The first attribute of this product is the use of glass fiber. The addition of 3% glass fiber provides an enhanced mechanical strength and stiffness, allowing the material to withstand high loads and stresses. This allows it to be used in critical aerospace components, such as landing gear, wing parts, and other high-stress applications. Glass fiber also improves the flame-retardant properties of the material, giving it a V0 rating. The second attribute of PEEK 450GL30 is the low friction coefficient. The material has a low coefficient of friction, which means that it can slide easily against other surfaces without generating heat or wear. This makes it ideal for medical devices that require low friction to prevent damage to tissues or other sensitive parts of the body. It also reduces the risk of contamination and infection, as there is less friction to generate heat, which can help to kill bacteria and other microorganisms. The third attribute of Medical-Grade PEEK 450GL30 Glass Fiber 30% Aerospace Components is its excellent chemical resistance. The material is highly resistant to a wide range of chemicals, including acids, bases, and solvents. It also has excellent resistance to steam and other high-temperature sterilization methods, allowing it to be easily disinfected for use in medical devices. This resistance to chemicals makes it an ideal choice for aerospace components that may be exposed to harsh chemicals and fuels. Overall, Medical-Grade PEEK 450GL30 Glass Fiber 30% Aerospace Components from Victrex is a high-performance material that offers exceptional strength, low friction, and chemical

resistance. Its combination of glass fiber and PEEK makes it a versatile material that can be used in a wide range of applications, from medical devices to aerospace components. At a price point of 236 yuan per kilogram, it is a cost-effective solution for applications that require a durable, reliable material that can withstand harsh environmental conditions.