

PEEK is a thermoplastic polymer. It is a biocompatible material with high tensile strength, heat resistance, and hardness, while also the anti-fatigue performance of PEEK material is the best among all current materials. These excellent properties make it an ideal choice for laparoscopy instruments.



PEEK Insulated Tube for Laparoscopy Forceps

Material: PEEK Black

Standard Size: OD Φ 5mm, Φ 10mm or Customized

L 330mm, 450mm or Customized



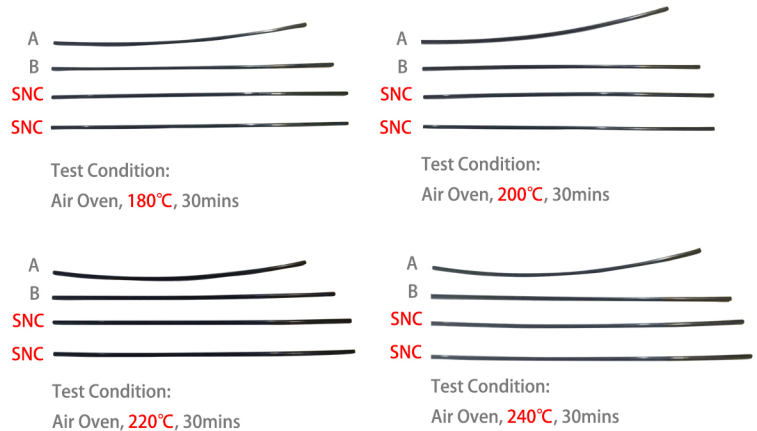
Bioinert - PEEK is a true biomaterial, and multiple studies have shown that the polymer is not cytotoxic, genotoxic or immunogenic.

PEEK Tube Biocompatibility testing			
ISO10993-5:2009	In Vitro Cytotoxicity Test	MTT Method MEM with 10% FBS extract	OK
ISO10993-10:2010	Skin Sensitization Test	Guinea Pig Maximization Test 0.9% Sodium Chloride Injection Extract	OK
ISO10993-10:2010	Skin Sensitization Test	Guinea Pig Maximization Test Sesame oil Extract	OK
ISO10993-10:2010	Skin Irritation Test	0.9% Sodium Chloride Injection Extract	OK
ISO10993-10:2010	Skin Irritation Test	Sesame oil Extract	OK

Compatibility with conventional instrument sterilization methods - PEEK offers complete compatibility with standard sterilization approaches, including autoclave (or steam), gamma radiation and EtO sterilization.

The performance of SNC PEEK Insulated Tube at high temperature

- Straightness deformation



* Sample A & B are from other suppliers

- Diameter deformation

ID & Temperature							
Sample	Initial value (mm)	180°C	190°C	200°C	220°C	240°C	Rate of change
A	4.21	4.19	4.17	4.15	4.14	4.14	1.66%
B	4.16	4.16	4.16	4.16	4.16	4.16	0%
SNC	4.06	4.06	4.06	4.06	4.06	4.06	0%

OD & Temperature							
Sample	Initial value (mm)	180°C	190°C	200°C	220°C	240°C	Rate of change
A	4.99	4.98	4.97	4.97	4.97	4.96	0.60%
B	4.99	4.95	4.94	4.94	4.94	4.93	1.20%
SNC	5.01	5.01	4.99	4.99	4.99	4.98	0.60%

* Sample A & B are from other suppliers

