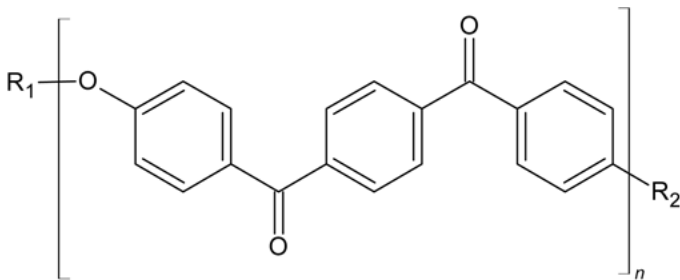


PEKK MEDICAL GRADE

PEKK Medical grade is a Thermoplastic polymer obtained by polymerisation of monomer EKKE with Isophthaloyl and Terephthaloyl chloride. Allowing various applications (dental and long term implants biomaterial) because of its higher mechanical strength and the presence of the second Ketone group, that allows more surface modification on its surface.

CHEMICAL STRUCTURE



Chemical Name: poly-ether-ketone-ketone
Synonym/acronym : PEKK

PROPERTIES & APPLICATIONS

Properties

- Shock absorbance
- Fracture resistance
- Mechanical strength
- Chemical resistance
- Thermostability

Applications

- Excellent barrier properties and the highest compressive strength among all polyarylether ketones
- Easy processing
- Suitable for sterilization
- Excellent shaping capacity beyond its melting point, suitable for :**
 - injection molding
 - extrusion (films, plastics, tubes)
 - 3D printing (FDM, SLS)

SEQENS UNIQUE OFFER

Ultra high performance copolymer that allows for crystallization profiles that match really what you are looking for.

Available PEKK medical grades :

	SP	CE	C
Appearance	White to cream solid	White to cream solid	White to cream solid
Tg (°C)	155-165	160-170	160-170
Crystallization point (°C)	NA	280-300	285-315
% Terephthaloyl / Isophthaloyl*	60/40	80/20	80/20
Equivalence with industrial series	6002	8001	8002

* The ratio of isophthaloyl and terephthaloyl chlorides allows the crystallinity of the polymer to be modified and therefore influences the viscosity and crystallization temperatures.