

Thermoplastic Polyimide

QPI-P250A



QPI-P250A is a kind of high performance thermoplastic polyimide, Tg about 250°C, Tm about 360°C, which has the highest level of heat resistance in thermoplastic resin, It reversed the recognition that polyimide has excellent performance and is difficult to process, QPI-P250A is suitable for injection molding and extrusion. Its Long-term temperature resistance up to 240°C; The product has excellent mechanical strength and toughness, dimensional stability, low out-gassing, and excellent radiation resistance. It is an excellent alternative to metals, ceramics and other high temperature resistant plastics and can be recycled.

We can produce according to different needs of different specifications sheet of Rods, plates, parts.

Main Characters:

High temperature rigidity: Tg(250°C) is +100°C higher than PEEK.

Sliding properties: The critical PV value is the highest in thermoplastic resins without lubricating oil

Dimensional stability: The shrinkage rate is 1/2 that of PEEK, and the molding accuracy of fiber reinforced grade is excellent.

Chemical resistance: Durable in gasoline, lubricating oil, aircraft fuel, cleaning agent, etc.

Radiation resistance: Compared with PEEK, thermosetting PI and other materials, it has better radiation resistance.

Main Specifications:

Item	Test Method	Unit	Typical Values
Specific gravity	GB/T 1033.1-2008		1.32
Tg	GB/T 19466.2-2004	°C	254
Tm	GB/T 19466.2-2004	°C	360
MFR,400°C-1.2 kg	GB/T 3682-2000	g/10min	2-4
Thermal properties			
HDT	GB/T1633-2000	°C	235

Main Usages: Thrust gaskets and sealing rings for the transmission devices of various automobiles and special equipment transmission devices, high temperature resistant self-lubricating bearings, compressor piston rings, sealing rings, tobacco machinery parts, printer automation parts, grippers, gaskets, bushings, electrical and electronic parts, automobile transportation equipment parts, special wire covering, semiconductor manufacturing equipment parts, hot insulators and wire strippers for high-speed copiers, etc.



Typical Application : QPI-P250A is similar with AURUM™PL450C , it can be used in a variety of applications, such as excavator guide rings, automotive transmissions and turbocharged seals, and a variety of bushings in oil and oil free environments.

Application 1: To dig the guide ring of the oil cylinder

Application 2: shaft sleeve

Application 3: Turbo sealing ring

Application 4: transmission seal

Application 5: Structural components