

Data Sheet

KIMYA PEKK-A 3D FILAMENT

Strong and chemically resistant filament for FFF 3D Printers

DESCRIPTION

Kimya PEKK-A is a high-performance 3D printing filament made from polyetherketoneketone (PEKK), part of the polyaryletherketone family. This is the amorphous form of PEKK, offering easier printability while still delivering excellent mechanical strength and high temperature resistance (up to 150°C (302°F)). Its chemical resistance allows it to withstand contact with hydrocarbons and various fluids, making it ideal for demanding technical applications in aerospace, automotive, railway, and other industrial sectors.

BENEFITS

- Temperature Resistance.
- Flame retardant.
- Excellent Chemical Resistance.

TECHNICAL DATA

Properties

	Values
Diameter	1.75 ± 0.1 mm
Density	1.261 g/cm ³ (0.036 lb/in ³)
Melt flow index (MFI)	37 - 47 g/10 min
Glass transition temperature (T _g)	159°C (318°F)
Melting Temperature (T _m)	308°C (586°F)

Test Methods

INS-6712
ISO 1183-1
ISO 1133-1(@380°C-5kg)
ISO 11357-1
ISO 11357-1

PROCESSING

Printing Direction

	ZX	XY
Printing Speed	20 mm/s	25 mm/s
Nozzle Temperature	380°C - 395°C (716°F - 743°F)	395°C - 400°C (743°F - 752°F)
Bed Temperature	150°C - 160°C (302°F - 320°F)	150°C - 160°C (302°F - 320°F)
Chamber Temperature	150°C - 160°C (302°F - 320°F)	150°C - 160°C (302°F - 320°F)