PEEK

Polyether ether ketone

DESIGNATION	CHEMICAL NAME	TYPE
PEEK	Polyether ether ketone	Thermoplastic

General description

The material has very good mechanical properties and withstands high temperatures (up to 250 °C).
It also has excellent chemical resistance.

Processing

PEEK is available as semi-finished products in the form of sheets, rods and hollow rods.
PEEK is also supplied reinforced with glass, carbon and lubricants.
The material has good machining properties.

Applications

Machined mechanical parts exposed to high thermal, mechanical or chemical stress.
Gears, bushings, valve seals, pump parts and more.

Special features

Victrex is the most common trade name.
Temperature resistance combined with mechanical strength and chemical resistance.
Food contact approval for certain types/products.

Properties

PROPERTY	STANDARD	UNIT	VALUE
Density	DIN 53479	g/cm^3	1.32
Tensile strength	DIN 53455	N/mm^2	95
Impact strength at 23 °C	DIN 53453	kJ/m^2	No break
Modulus of elasticity	DIN 53457	N/mm^2	3600-4200
Elongation at break	DIN 53455	%	50
Service temperature, continuous	-	°C	-40/+250
Thermal expansion	ASTM D 896	mm/m/°C	0.05
Flammability	UL 94		V0

All information and guidelines are based on generally recognised technical handbooks and are given to the best of our knowledge and in good faith, without liability for any errors.

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