

## Material Data Sheet

# UTECPEEK-1

## General Information

UTECPEEK-1 (Poly Ether Ether Ketone) is a high-performance thermoplastic commonly referred to as PEEK. The material has excellent physical and chemical properties to serve a wide range of applications at high temperatures, where outstanding mechanical stability and rigidity are necessary. PEEK is recommended for precision parts where close tolerances are required.

## Physical properties

Colour:			Cream
Hardness at 20°:	DIN 53505	Shore D	86
Density:	DIN 53479	g/cm <sup>3</sup>	1.3
Tensile strength:	DIN 53504	N/mm <sup>2</sup>	> 105
Elongation at break:	DIN 53504	%	> 30
Modulus of elasticity:	DIN 53457	N/mm <sup>2</sup>	4200
Water absorption to saturation:	ASTM D570	%	< 0.4
Melting temperature:		°C	340
Min. service temperature:		°C	-60
Max. service temperature:		°C	+300

### Remark

All test methods and values mentioned above are corresponding to ASTM or DIN standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.