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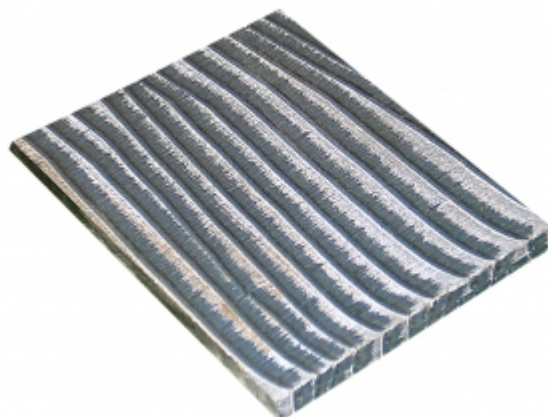
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# PEEK

## ANTWEAR

This PEEK is a 30% carbon fiber reinforced grade that offers higher stiffness, mechanical strength and creep resistance with an optimum wear resistance than the virgin PEEK. The carbon fibers provide 3.5 times higher thermal conductivity, dissipating heat from the bearing surface faster.



## APPLICATIONS

Some of this materials applications include; compressor components and seals, pump wear rings, semiconductor wafer handling, bushings and bearings.

## SPECIFICATIONS

### Technical Data

Specific gravity (ASTM D-792)	1.32
Temperature	248 °C (480 °F)
Tensile strength (ASTM D-638) (psi)	14000
Flexural strength (ASTM D-790) (psi)	25000
Compressive strength (ASTM D-695) (psi)	17100
Hardness, M Scale (ASTM D-785)	99
Elongation (ASTM D-638) (%)	60
Coeff. Thermal Exp. (ASTM D-696) In/In/°F	$2.6 \times 10^{-6}$
Water absorption, 24 hours %	0.2
Dielectric strength (volt/mil)	480

**N.B.** The information, details and values indicated are to the best of our knowledge. We recommend to conduct tests according to local conditions. The data is subject to some variations without notice.