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SYNTHETIC

PEEK



Description

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 X 10 ⁻⁶

Water absorption, 24 hours %	0.2
Dielectric strength (volt/mil)	480

N.B. The information presented may differ from practice. We recommend conducting tests according to the conditions of use. We accept no responsibility for results obtained by the application of this information or the safety and suitability of our products. The data is subject to certain variations without notice.