TECHNICAL DATA
PEEK

PEEK fasteners are an engineered polymer offering a unique combination of properties including excellent strength and chemical resistance to 500˚F. They provide resistance to thermal degradation (chemical decomposition by heat) and hydrolysis (continuous exposure water or steam at high temperatures and pressure). In addition, PEEK fasteners can be used to protect against many oils, alcohols, solvents, and organics as well as harsh acids and bases in low concentrations and temperatures. PEEK screws are also able to withstand frequent sterilization processes. For added strength and stiffness, PEEK fasteners can be reinforced with glass and carbon fiber.

Properties & Data

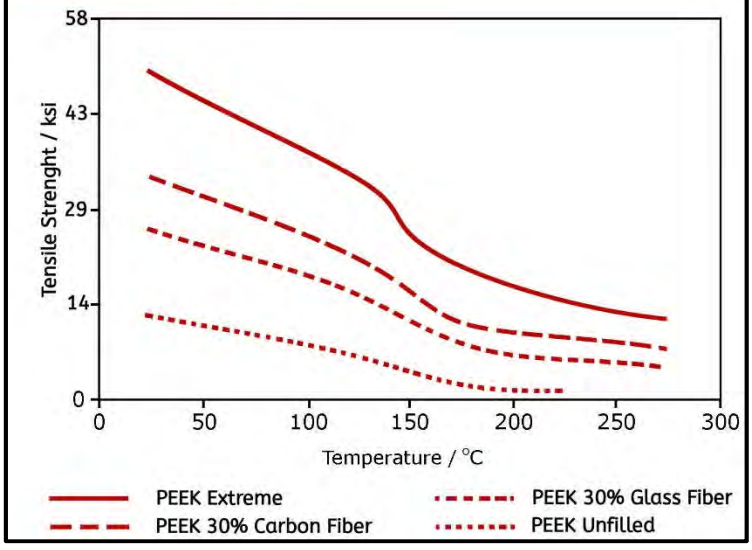
PEEK - Tensile Data

Temperature (°F / °C)	PEEK Unfilled (ksi)	PEEK 30% Glass (ksi)	PEEK 30% Carbon (ksi)	PEEK Extreme (ksi)
75 / 23	14.5	26.1	37.8	47.8
260 / 125		16.7	23.2	31.9
350 / 175		8.7	12.3	21
530 / 275		5	6.3	12.3

Key Benefits

- Excellent strength and stiffness up to 500°F (260°C)
- Low coefficient of friction and high wear resistance
- Resistant to many chemicals
- Can withstand frequent sterilization
- Radiation resistant
- Electrical properties maintained over a wide frequency and temperature range
- Low out-gassing, low particle generation and inherent high purity

PEEK TENSILE CURVES



PEEK CHEMICAL RESISTANCE / STRENGTH RETENTION