



GEHR

PRODUCT CAPABILITIES:

- Rod : 10 - 80mm
- Sheet : 10 - 40mm

ADVANTAGES:

- Very high mechanical strength
- Very high rigidity
- Very high thermal stability
- Very high creep resistance
- Very high dimensional stability
- Very high radiation resistance
- Very high hydrolysis resistnace
- Relatively low notch impact strength
- Low resistance to acetone

PRODUCT COLORS:

- Black

APPLICATIONS INCLUDE:

- Locking devices
- Spacers
- Dosing systems
- Nozzles, flanges, grippers
- Housing parts in the electrical industry
- Fixtures, bevel gears

GENERAL PROPERTIES	ASTM or UL Test	PEEK Mod Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.48
Water Absorption, 24 hrs (%)	D570	0.3
MECHANICAL		
Tensile Strength (psi)	D638	12,325
Tensile Elongation at Break (%)	D638	7
Flexural Strength (psi)	D638	30,000
Flexural Modulus (psi)	D638	1,394,000
Compressive Strength (psi)	D695	-
Compressive Modulus (psi)	D695	-
Hardness, Shore D	D2240	85
IZOD Notched Impact (ft-lb/in)	D256	3.2
THERMAL		
Coeff. of Thermal Expansion, Flow (1/°F)	D696	1.7 x 10 ⁻⁵
Heat Deflection Temp (°F / °C) @ 66 psi	D648	-
Heat Deflection Temp (°F / °C) @ 264 psi	D648	622 / 328
Vicat Softening Temperature, Rate B/50 (°C)	-	-
Oxygen Index (LOI) (%)	-	-
Flammability Rating	-	V-0
ELECTRICAL		
Dielectric Strength (V/mil) short time, 1/8" thick	D149	-
Dielectric Constant at 1 MHz	D150	-
Volume Resistivity (ohm.cm)	D257	≥10 ¹⁰
Surface Resistivity (ohm)	-	≥10 ⁵

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.