



PEEK GSpire™ P880FW31PF is a PEEK compound that offers excellent mechanical properties, wear resistance, and a low coefficient of friction without containing PTFE / PFAS.

It combines high purity, outstanding chemical resistance, best-in-class fatigue resistance, and easy melt processing.

Typical applications include transportation, electronics, industrial uses, and oil and gas exploration.

Physical Properties	Typical Value	Unit	Test method
Density / Specific Gravity	1,44	g/cm <sup>3</sup>	ASTM D792
Water Absorption (24 h)	0,10	%	ASTM D570
Mechanical Properties	Typical Value	Unit	Test method
Tensile Modulus	18200	MPa	ASTM D638
Tensile Strength	160	MPa	ASTM D638
Tensile Elongation	2,1	%	ASTM D638
Flexural Modulus 23°C	14500	MPa	ASTM D790
Flexural Strength 23°C	250	MPa	ASTM D790
Compressive Strength	169	MPa	ASTM D695
Impact			
Notched Izod	47	$\frac{J}{m}$	ASTM D256
Unnotched Izod	560	$\frac{J}{m}$	ASTM D4812
Thermal Properties	Typical Value	Unit	Test method
Heat Deflection Temperature (HDT)	315	°C	ASTM D648 1,80 MPa
Coefficient of Linear Thermal Expansion (CLT)	17	$10^{-6} \times K^{-1}$	ASTM D696

Typical properties: Mentioned values are not to be construed as specifications. Properties of final parts may differ due to shape and process related variations. \*PEEK GSpire™ P880FW31PF is a trademark of GAPI Technische Produkte GmbH and equivalent to KetaSpire® KT-880 FW31 (PEEK). KetaSpire is a registered trademark of Syensqo Specialty Polymers.

2025

