

PEEK Glide™

High Lubricity PEEK - Polyether Ether Ketone

Overview-

PEEK is a high-performance thermoplastic with one of the highest strength-to-weight ratios of any engineered polymer. This material is a very rigid plastic with excellent mechanical properties and boasts a continuous working temperature of 500 °F / 260 °C. When extruded, PEEK can be used in a variety of applications as an alternative to other materials including fluoropolymers, polyimide, and various metals.

With PEEK Glide™ engineers have a unique solution when looking for reduced drag, with up to a 17 percent decrease in coefficient of friction as compared to standard PEEK. PEEK Glide™ retains the outstanding ductility and toughness that PEEK is known for, as well as other performance attributes such as mechanical strength and stiffness, fatigue resistance, and excellent chemical resistance to a broad range of harsh chemical environments including acids, bases and organics.

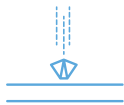
Advanced applications increasingly use PEEK when strength and pushability are needed. PEEK Glide™ can be beneficial for industrial applications such as push pull cables, wire harness, or constructions where wiring or components may need to be forced through confined spaces. Medical applications benefit from PEEK Glide™ when more torque, pushability and lubricity are needed for advanced catheter componentry.



HIGH SERVICE TEMP



ABRASION RESISTANCE



IMPACT RESISTANCE



We can extrude PEEK in a variety of sizes, colors, other options. To learn more about PEEK Glide™ and available capabilities, please contact your local sales representative.

APPLICATIONS

- Electrical Insulation
- Fluid transfer
- Analytical tubing
- Low Friction tubing
- Medical devices
- 3D filament lines

AVAILABLE PRODUCTS

- Extruded tubing
- Special profile
- Multi-lumen
- Monofilament
- Drawn fiber
- Coated wire

QUICK SUMMARY OF PROPERTIES



- Enhanced lubricity
- High temperature
- USP Class VI
- Light weight
- Excellent impact and wear
- Available in colors









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The information presented in this publication is believed to be accurate and is not intended to constitute a specification. Property characteristics are dramatically impacted by geometry and processing method, thus properties of extruded parts may vary. In some instances, data may not be available for publication and will be notated as “na” where applicable.

These tables are meant to serve as a general guideline only. Users should evaluate the material to determine suitability for their own particular application.

PHYSICAL		METHOD	PEEK	PEEK Glide™
	Density (g/cm ³)	ASTM D792	1.3	1.35
	Water Absorption (%)	ASTM D570	0.07 - 0.45*	0.10%

MECHANICAL		METHOD	PEEK	PEEK Glide™
	Hardness, Shore D	ASTM D2240	84.5	83
	Tensile Strength (MPa)	ASTM D638	98 - 100**	88
	Elongation at Break (%)	ASTM D638	40 - 45***	60
	Flexural Modulus (MPa)	ASTM D790	3800 - 4200****	3500
	Coefficient of Friction (Static)	Modified ASTM D1894	0.250	0.206
	Coefficient of Friction (Kinetic)	Modified ASTM D1894	0.209	0.172

*PEEK tested to ISO 62-1

**PEEK data tested to Ultimate Tensile Strength (Mpa) per ISO 527 (1 or 3)

***PEEK data tested to ISO 527 (1 or 3)

****PEEK data tested to ISO 178

