

PEEK™ Tubing Products

Products & Custom Solutions



Customer Value Proposition:

Parker TexLoc offers a variety of TEXfluor® Peek™ Tubing Products including large bore tubing, convoluted tubing, small capillary tubing, profiles and rod. Wall thicknesses vary as does the color, from a light amber when produced as a thin wall tube to a dark tan in heavier wall products.

Peek™ tubing is offered in a crystalline (not transparent) or amorphous (transparent) state and colors range from a light amber to a dark brown. Common sizes are listed on the next page.

PEEK™ tubing is not stocked and is always made to order. For a custom quote, please email texloc@parker.com.



Contact Information:

Parker Hannifin Corporation
Paflex/TexLoc
4700 Lone Star Blvd.
Fort Worth, TX 76106

phone 800 423 6551/817 625 5081
fax 800 438 9562/817 624 9095
email: texloc@parker.com

www.texloc.com

Product Features:

- High Tensile Strength
- Maximum Service Temperature (500°F/260°C)
- USP Class VI Compliant
- Radiation Resistant
- Superior Strength to Weight Ratio
- Excellent Abrasion Resistance
- Excellent Chemical Resistance
- Good Electrical Properties
- Low Ionic Extractables & Outgassing
- UL 94VO Flammability Rating
- Low Smoke & Gas Emissions



ENGINEERING YOUR SUCCESS.

PEEK™ Attributes

PEEK™ Properties

MECHANICAL PROPERTIES			
Properties	ASTM	Unit	PEEK™
Specific Gravity	D792		1.30~1.32
Tensile Elongation	D638	%	20~60
Tensile Strength	D638	psi	14,065~14,500
Flexural Strength	D790	psi	24,650
Compressive Strength	D695	73°F/23°C	17,110
Tensile Elastic Modulus	D638	psi	500,000
Flexural Modulus	D790	psi	580,000~594,500
Hardness Durometer	D785		R126~M99
Coefficient of Friction	Dynamic	(<10ft/min)	0.18
Impact Strength IZOD 73°F/23°C	ISO180	notched ft/lbs/in unnotched ft/lbs/in	1.12~1.38 no break
ELECTRICAL PROPERTIES			
Dielectric Constant	D150	350°F(177°C) 50Hz-10kHz	3.2-3.3
		392°F(200°C) 50Hz-10kHz	4.50
Dissipation Factor	D150		.003
Dielectric Strength	D149	.002 in. film KV/ CM ⁻¹	190
Volume Resistivity	D257	ohm-cm	4.9 x 10 ¹⁶
Surface Resistivity		ohm/sq	2.0 x 10 ¹⁶
GENERAL PROPERTIES			
Water Absorption, 24h	D570	%	<0.05
Color			Amber/Tan



TYPICAL SIZES

Sizes Range from .010" up to 2"

PEEK™ Typical Sizes - Smoothbore Tubing			
ID		Wall	
inch	mm	inch	mm
.051 ± .002	1.29 ± .051	.010 ± .002	.254 ± .051
.092 ± .003	2.34 ± .076	.015 ± .003	.381 ± .076
.165 ± .004	4.19 ± .102	.020 ± .003	.508 ± .076
.300 ± .005	7.62 ± .127	.025 ± .004	.635 ± .102
.425 ± .005	10.7 ± .127	.025 ± .004	.635 ± .102

PEEK™ Typical Sizes - Capillary Tubing			
ID		OD	
inch	mm	inch	mm
.005 ± .002	.127 ± .051	.062 ± .003	.157 ± .076
.010 ± .002	.254 ± .051	.062 ± .003	.157 ± .076
.015 ± .002	.381 ± .051	.062 ± .003	.157 ± .076
.020 ± .003	.508 ± .076	.062 ± .004	.157 ± .102
.025 ± .003	.762 ± .076	.062 ± .004	.157 ± .102

PEEK™ Typical Sizes - Monofilament			
OD		MM	
size	tolerance	size	tolerance
.010	± .002	.254	± .051
.031	± .002	.787	± .051
.062	± .003	1.57	± .076
.093	± .004	2.36	± .102
.125	± .005	3.18	± .127

PEEK™ Applications

- Medical
- Nuclear
- Analytical Instrumentation
- Pharmaceutical
- Semiconductor
- Chemical Processing
- Aerospace
- Electronics
- Hydrolysis