



Unfilled PEEK Shape Data from Quantum Polymers

Shape Data Property Tested	ASTM Test Method	Units	Unfilled PEEK Values
Density	D792-13	g/cm ³	1.30
HDT at 264 psi	D648-16	°C	157
IZOD Impact, notched, 23°C	D256-10	J/m	91
Tensile Strength	D638-14	MPa	105.5
Tensile Elongation at Break	D638-14	%	78
Tensile Modulus (Young's)	D638-14	MPa	4131
Dimensional Stability (change in diameter)	D6713-14	%	0.16
Dimensional Stability (change in thickness)	D6713-14	%	0.18

APPLICATIONS

- Thrust washers and bushings
- Valve plates
- High load bearings
- Down hole back-up rings
- Pump and wear components
- Compressor components

FEATURES

- Compliance to the requirements of ASTM D6262-12 S-PAEK0111
- Outstanding wear and best-in-class fatigue resistance
- High purity and excellent chemical resistance to organics, acids and bases
- Compliance to ISO 10993, FAR 25.853a, USP Class VI, and Mil-P-46183 Type 1

SIZES

Plates

Thickness: 3/8" to 6"
Width: 12", 18", 24"
Length: 4'

Rods

Diameter: 3/8" to 10"
Length: 4' | 8' | 10'

Tubular Bars

OD: 3" to 6", 10", 12"
Wall Thickness ≥ 1/2"
Length: 4' | 8'



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