

# KETRON® IM 1000 PEEK

## SUPERIOR STEAM AND WEAR RESISTANCE



### TRENDS IN VALVE MARKET

- Higher temperature and loads
- Low maintenance, increase life in service
- Cost effective solutions, ease to manufacture
- Reduce fugitive emissions
- Sealing Support in HTHP Applications

### QUADRANT ANSWERS

- Material temperatures up to 480°F / 250°C
- Self lubricated materials
- High resistance to fuels, lubricants and chemicals
- Better physical properties than conventional solutions
- Near net shapes, machining and molded parts
- Lowest Stress shapes

### MATERIAL SIZES\*

OD	ID	Wall
1.00	0.50	0.250
1.25	0.75	0.250
1.50	0.50	0.500
1.50	1.00	0.250
1.75	1.00	0.380
2.00	1.00	0.500
2.00	1.25	0.375
2.00	1.50	0.250
2.25	1.50	0.375
2.25	1.75	0.250
2.50	1.50	0.500
2.75	1.75	0.500
2.50	2.00	0.250
2.75	2.25	0.250
3.00	2.00	0.500
3.00	2.50	0.250
3.25	2.50	0.380
3.50	2.50	0.500
3.50	3.00	0.250
3.75	3.25	0.250

OD	ID	Wall
4.00	3.00	0.500
4.00	3.25	0.380
4.00	3.50	0.250
4.25	3.75	0.250
4.50	3.50	0.500
4.50	4.00	0.250
4.75	4.00	0.380
4.75	4.25	0.250
5.00	4.00	0.500
5.00	4.50	0.250
5.25	4.00	0.630
5.25	4.25	0.500
5.50	4.50	0.500
5.75	5.00	0.380
6.00	5.25	0.380
6.25	5.25	0.500
6.50	6.00	0.250
7.00	6.25	0.380
7.25	6.25	0.500
7.25	6.50	0.380
7.50	6.75	0.380

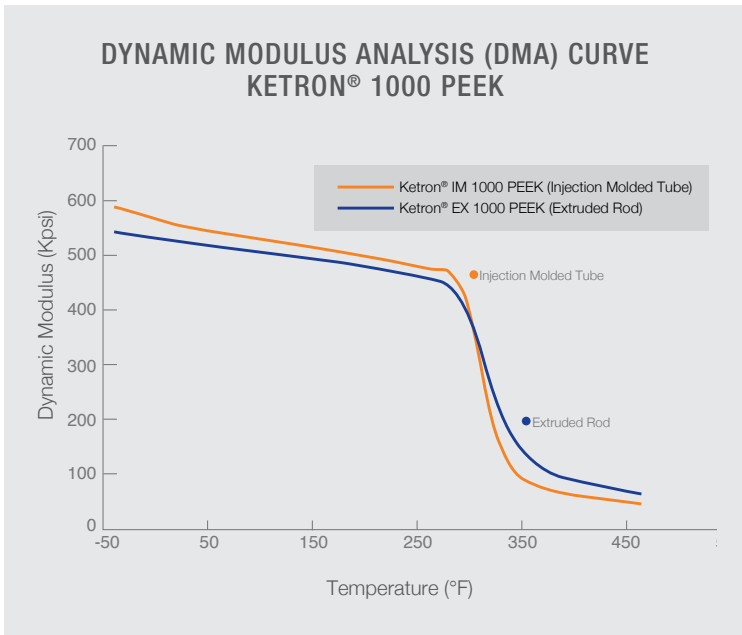
\*Current sizes available. Length is 6.00 for all sizes listed



## KETRON® 1000 PEEK THIN WALL TUBES – INJECTION MOLDED

- **Additional Formulations also available via MTO in** Ketron® GF30 PEEK (30% Glass filled), Ketron® CA30 PEEK (30% Carbon filled), and Ketron® HPV PEEK (Bearing Grade)
- **NORSOK M710 Compliant:** Quadrant's KETRON® 1000 PEEK has been tested and is compliant according to NORSOK M710, including sour gas aging

## KETRON® 1000 PEEK TUBES – EXTRUDED & INJECTION MOLDED



## DATA SHEET

Mechanical Properties	Property	Units	Test Method	KETRON® IM 1000 PEEK	KETRON® EX 1000 PEEK	Resin Data
	Ultimate Tensile Strength @ 73°F	psi	ASTM D638	16,000	16,000	14,100
	Tensile Modulus @ 73°F	psi	ASTM D638	600,000	630,000	508,000
	Elongation, at break @ 73°F	%	ASTM D638	40	40	60
	Flexural Strength @ 73°F	psi	ASTM D790	23,000	25,000	24,700
	Flexural Modulus of Elasticity @ 73°F	psi	ASTM D790	600,000	600,000	595,000
	Compressive Strength @ 73°F	psi	ASTM D695	20,000	20,000	17,100
	Compressive Modulus @ 73°F	psi	ASTM D695	425,000	500,000	–
Test Bars Machined from Shape					Test Bars Injection Molded	

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