

## Stress Saver® 3504



### MATERIAL PROPERTIES\*

<b>Color:</b>	Blue	
<b>Composition:</b>	PTFE with glass microspheres	
<b>Fluid Services<sup>1</sup>:</b>	Moderate concentrations of acids and caustics, solvents, refrigerants, cryogenics, hydrocarbons and hydrogen peroxide	
<b>Temperature<sup>2</sup>, °F (°C)</b>		
Minimum:	-450 (-268)	
Continuous Max:	+500 (+260)	
<b>Pressure<sup>2</sup>, Maximum, psig (bar):</b>	800 (55)	In metal flanges.
<b>P x T (max.)<sup>2</sup>, psig x °F (bar x °C)</b>		
1/8":	250,000 (8,600)	
<b>Flammability:</b>	Will Not Burn	
<b>Bacterial Growth:</b>	Will Not Support	
<b>Meets Specification:</b>	FDA (Food and Drug Administration) and USP Class VI (US Pharmacopeia), Specify 3505 for NSF 61 (National Sanitation Foundation)	

### TYPICAL PHYSICAL PROPERTIES\*

<b>ASTM F36</b>	<b>Compressibility, %:</b>	12
<b>ASTM F36</b>	<b>Recovery, %:</b>	50
<b>ASTM F152</b>	<b>Tensile, psi (N/mm<sup>2</sup>):</b>	2000 (13.8)
<b>ASTM D792</b>	<b>Specific Gravity:</b>	1.90
<b>ASTM F586</b>	<b>Design Factors</b>	
	"m" factor	TBD
	"y" factor, psi (N/mm <sup>2</sup> ):	TBD

### SEALING CHARACTERISTICS\*

	<b>DIN 3535- 4 Gas Permeability</b>
<b>Gasket Load</b> , psi (N/mm <sup>2</sup> ):	4640 (32)
<b>Internal Pressure</b> , psig (bar):	580 (40)
<b>Leakage</b>	<b>&lt;0.015 cc/min</b>

#### Notes:

This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results in accordance with ASTM F-104; properties based on 1/8" (3mm) thickness unless otherwise mentioned.

\* Values do not constitute specification Limits

<sup>1</sup> See Garlock chemical resistance guide.

<sup>2</sup> Based on ANSI FF metal flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum PxT, consult Garlock Applications Engineering.