Garlock STRESS SAVER® 3504

MATERIAL PROPERTIES*:

Color:	Blue
Composition:	PTFE with Aluminosilicate microspheres
Fluid Services (see chemical resistance guide)**:**	Moderate concentrations of acids, some caustics, hydrocarbons, solvents, hydrogen peroxide, refrigerants and cryogenics
Temperature[1], °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
Ideal Operating Limit:	+400 (+204)
Pressure[1], Maximum, psig (bar):	
Minimum:	Full Vacuum
Maximum:	800 (55) in metal flanges
Ideal Operating Limit:	750 (52) in metal flanges
P x T (max.)[1], psig x °F (bar x °C):	250,000 (8,600)
Flammability:	Will Not Support Flame
Bacterial Growth:	Will Not Support
Meets Specifications:	FDA (Food and Drug Administration) 21 CFR 177.1550 and USP (US Pharmacopeia) Specify 3505 for NSF 61 (National Sanitation Foundation)

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	**Compressibility**, average, %:	12
ASTM F36	**Recovery**, %:	50
ASTM D1708	**Tensile**, Across Grain, psi (N/mm^2):	2000 (13.8)
ASTM D792	**Specific Gravity:**	1.90
ASTM F586	**Design Factors**	
	"m" factor:	2.0
	"y" factor, psi (N/mm^2):	400 (2.7)

SEALING CHARACTERISTICS*

	DIN 3535 – Nitrogen
Gasket Load, psi (N/mm2):	4640 (32)
Internal Pressure, psig (bar):	580 (40)
Leakage	**<0.015 cc/min**

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

[1] Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum PxT, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

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