

GYLON® 3545 TUFF-RAIL®



MATERIAL PROPERTIES*:

Color:	Dark blue
Composition:	Microcellular PTFE with rigid PTFE center layer
Fluid Services (see chemical resistance guide):	Strong caustics, strong acids, solvents, hydrocarbons, cryogenics, food products and low load manways ¹
Temperature, °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
Flammability:	Will Not Support Flame
Bacterial Growth:	Will Not Support
Meets Specifications:	49 CFR 180.605 pneumatic leak testing, 21 CFR 177.1550
Gasket Dimensions:	19.5" ID x 21.5" OD
Manway Styles:	AAR-1, UTC-1, TRN-1

TYPICAL PHYSICAL PROPERTIES*:

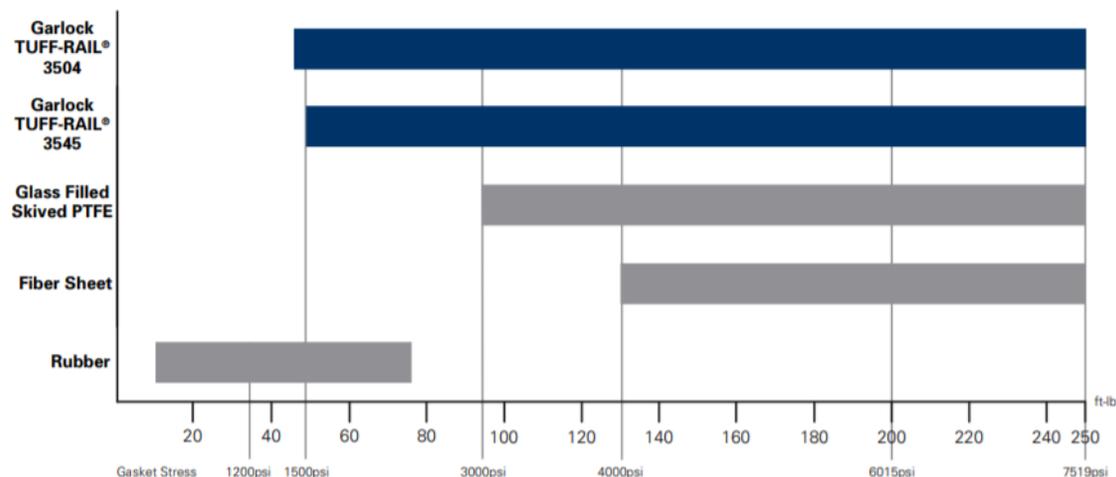
ASTM F36	Compressibility, average:	60-70%
ASTM F36	Recovery:	15%
ASTM F38	Creep Relaxation:	15%
ASTM F586	Design Factors	
	"m" factor:	2.0
	"y" factor:	2,200 psi
Recommended Assembly Stresses		
	Minimum:	1,500 psi ¹
	Preferred:	4,800 psi
	Maximum:	15,000 psi

Notes:

* Due to the molded nature of the TUFF-RAIL® gasket test results shown are based on Style 3545 sheet material.

¹ Testing has shown that the TUFF-RAIL® gaskets were able to achieve a bubble tight seal (30 psig air) in an AAR-1 manway test fixture assembly (using (8) 7/8" A307 bolts) with an assembly stress of 1500 psi (see graph below). While the TUFF-RAIL® does seal at extremely low stresses, higher torque/bolt stress should be considered when used in rail car manways to help account for vibration and/or temperature fluctuation during the gasket's service life.

SEALABILITY TESTING COMPARISONS



8-19-2019