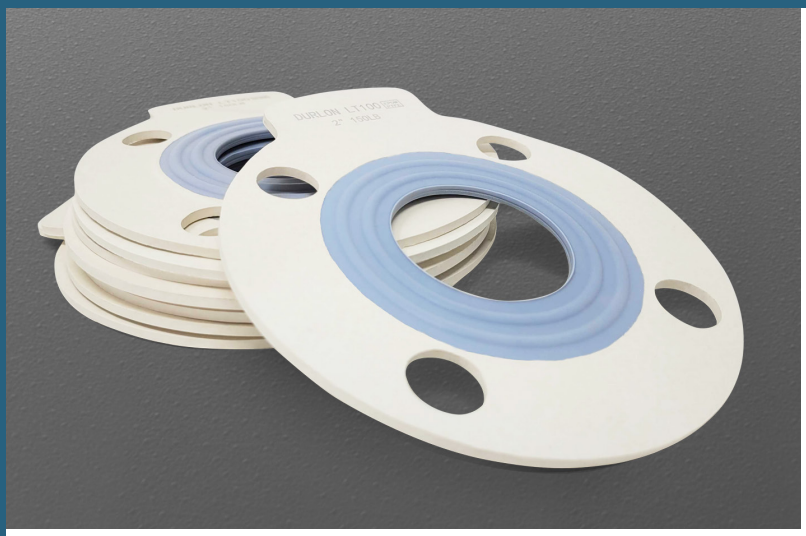


DURLON®
LT 100 - EPDM/PTFE

Pure PTFE, Bonded to EPDM

The Durlon® LT 100 is a high-performance gasket material designed for low-torque and chemically demanding environments. It is manufactured through a proprietary molding process that chemically bonds expanded PTFE (ePTFE) to a peroxide-cured EPDM rubber base, combining the chemical resistance of PTFE with the elasticity of EPDM.

This formulation delivers an exceptionally low compression set, ensuring long-term sealing integrity under minimal bolt loads and fluctuating temperatures. Ideal for plastic and non-metallic flanges, the material is tailored for applications where torque limitations are critical.

To support universal flange compatibility, the LT 100 features a dual-rib design, optimized for both flat-face and raised-face flanges. The carefully controlled PTFE thickness offers high chemical resistance while preserving mechanical performance.

A one-piece PTFE shield spans the surface of the Durlon® LT 100, providing enhanced chemical protection and sealing reliability in corrosive or high-purity systems. Manufactured with FDA-compliant materials, it is well-suited for regulated industries such as food and beverage, pharmaceuticals, and potable water. Overall, the Durlon® LT 100 delivers a technically advanced, regulatory-compliant sealing solution designed to meet the stringent demands of modern low-torque, high-integrity gasketing applications.

APPLICATIONS:

- Acids
- Caustics
- pH 0- 14
- Bleaches
- Gases
- Water
- Petrochemical
- Most Chemicals

INDUSTRY SERVED:

- Pharmaceutical
- Food
- Water
- Sewage
- Mining
- Electronics
- Semiconductors
- Chemical Processing
- Pulp & Paper
- FRP/Glass Lined Piping

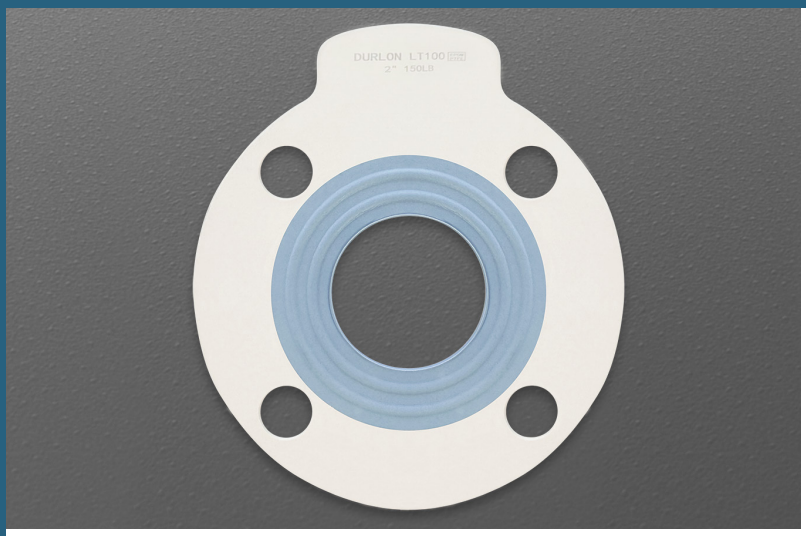
Physical Properties	
Color	White/Blue
Temperature: Min Max	 -40°C (-40°F) 150°C (300°F)
Pressure, Max, bar (psi)	17 Bar (250 psi)
Hardness	Duro Shore A 70
M & Y Values	M = 1.5 Y = 300 psi

Available Sizing

Gasket Size	Gasket ID, inches	Gasket OD, inches	Bolt Circle Diameter, inches	Number of Bolt Holes	Bolt Hole Diameter, inches
1/2”	0.84	3.50	2.38	4	0.63
3/4”	1.06	3.88	2.75	4	0.63
1”	1.31	4.25	3.13	4	0.63
1-1/4”	1.66	4.63	3.50	4	0.63
1-1/2”	1.91	5.00	3.88	4	0.63
2”	2.38	6.00	4.75	4	0.75
2-1/2”	2.88	7.00	5.50	4	0.75
3”	3.5	7.50	6.00	4	0.75
4”	4.5	9.00	7.50	8	0.75
5”	5.56	10.00	8.50	8	0.88
6”	6.62	11.00	9.50	8	0.88
8”	8.62	13.50	11.75	8	0.88
10”	10.75	16.00	14.25	12	1.00
12”	12.75	19.00	17.00	12	1.00
14”	14.00	21.00	18.75	12	1.13
16”	16.00	23.50	21.25	16	1.13
18”	18.00	25.00	22.75	16	1.25
20”	20.00	27.50	25.00	20	1.25
24”	24.00	32.00	29.50	20	1.38

Note: ASTM properties are based on 1/16” sheet thickness, except ASTM F38 which is based on 1/32” sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties, but should not be used to establish specifications limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

REV. 2025/06



DURLON®
LT 100 - EPDM/PTFE

Pure PTFE, Bonded to EPDM

Torque Value Table for B16.5 150# Flat Face Flanges				
Nominal Pipe Size	**No. of Bolts**	**Bolt Size, inches**	**Minimum Torque, ft-lbs (N-m)**	**Maximum Torque, ft-lbs (N-m)**
1/2”	4	0.50	8 (11)	15 (20)
3/4”	4	0.50	10 (14)	19 (26)
1”	4	0.50	12 (16)	23 (31)
1-1/4”	4	0.50	13 (18)	27 (37)
1-1/2”	4	0.50	15 (20)	30 (41)
2”	4	0.63	27 (37)	54 (73)
2-1/2”	4	0.63	37 (50)	75 (102)
3”	4	0.63	41 (56)	81 (110)
4”	8	0.63	27 (37)	55 (75)
5”	8	0.75	34 (46)	68 (92)
6”	8	0.75	38 (52)	77 (104)
8”	8	0.75	55 (75)	111 (150)
10”	12	0.88	54 (73)	108 (146)
12”	12	0.88	78 (106)	155 (210)
14”	12	1.00	112 (152)	223 (302)
16”	16	1.00	101 (137)	201 (273)
18”	16	1.13	110 (149)	220 (298)
20”	20	1.13	103 (140)	207(281)
24”	20	1.25	144 (195)	289 (392)

Notes:
Available in ASME B16.21 Class 150 Flange Gaskets from 1/2” to 24”.
Torque values are based on 250psi internal pressure.
Minimum recommended torque value is possible if internal pressure is lower than 250psi.
Maximum torque is permissible provided it does not exceed flange manufacturers maximum torque value or allowable bolt stress.
Minimum torque and maximum torque are based on 500psi and 1000 psi gasket stress respectively.
For raised face flange torque values, please contact manufacturer for recommendations.

Note: ASTM properties are based on 1/16” sheet thickness, except ASTM F38 which is based on 1/32” sheet thickness. This is a general guide only and should not be the sole means of accepting or rejecting this material. The data listed here falls within the normal range of product properties, but should not be used to establish specifications limits nor used alone as the basis of design. For applications above Class 300, contact our technical department.

Warning: Durlon® gasket materials should never be recommended when both temperature and pressure are at the maximum listed. Properties and applications stated are typical. No applications should be undertaken by anyone without independent study and evaluation for suitability. Never use more than one gasket in one flange joint and never reuse a gasket. Improper use or gasket selection could cause property damage and/or serious injury. Data reported is a compilation of field testing, field service reports and/or in-house testing. While the utmost care has gone into publishing the information contained herein, we assume no responsibility for errors. Specifications and information contained within are subject to change without notice. This edition cancels and obsoletes all previous editions.

 REV. 2025/06