

DuraSwell was engineered for demanding applications that require superior sealability, conformity to flange surfaces, and recovery. This gasket material is designed to react by a controlled swell when in contact with oils and fuels which assists to increase gasket stress in applications that require increased gasket loading that may be previously limited due to insufficient bolting or flange design factors. Applications include fuel systems, pulp and paper tall oils, oils, coolants and heavy duty equipment applications such as oil pan covers, gear case and flywheel housings.

Gasket Factors	
	1/16"
m	6.9
Y, psi (MPa)	2412
G _v , psi (MPa)	95 (0.655)
a	0.609
G _s , psi (MPa)	4 (0.027)

Anti-Stick Properties:

Much engineering effort has gone into improving the anti-stick release agents of all compressed Durlon® products in this area over decades of R&D. All Durlon® compressed gasket materials have passed the MIL-G- 24696B Navy Adhesion Test. (366°F/48hrs).

Cutability:

All Durlon® product are known for superior cutability and flexibility resulting in clean cuts and perfect fit.

Color	Off-White
Fiber System	Synthetic
Binder	Proprietary Blend SBR
Temperature	
Min	-100°F (-73°C)
Max	650°F (344°C)
Continuous, Max	400°F (205°C)
Pressure	
Max, bar (psi)	69 (1000)
Continuous, bar (psi)	34.5 (500)
Density, g/cc (lbs/ft3)	1.65 (103)
ASTM F1315	
Compressibility, %	7-17
ASTM F36	
Recovery, %	50
ASTM F36	
Creep Relaxation, %	<30
ASTM F38	
Tensile Strength, MPa (psi)	14.8 (2,100)
ASTM F152	
Fluid Resistance, ASTM F146	
IRM 903 Oil 5hrs at 300°F	
Thickness Increase, %	<75
Weight Increase, %	<50
ASTM Oil #1 5hrs at 70°F	
Thickness Increase, %	15-30
Weight Increase, %	<30
Nitrogen Sealability, cc/min	
ASTM 2378	0.01
Flexibility	
ASTM F147	4x

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.

