



## Seals Eastern, Inc.



### Compound Data Sheet 7182B 92 Durometer FEPM

**Formulated 100H AFLAS® excellent explosive decompression (ED) resistance;  
Resistant to sour hydrocarbons.**

**Description:** Tetrafluoroethylene/propylene copolymers, TFE/P (e.g., Aflas)  
An Aflas® compound that has resistance to oils, lubricants and some fuels approaching that of fluoroelastomer dipolymers. In addition, it exhibits excellent resistance to steam, amines, hydrogen sulphide and bases. This compound can operate continuously at 260°C (500°F) in steam and up to 220°C (425°F) in other media; however, it will stiffen rapidly below 5°C (40°F). Aflas exhibits the best radiation resistance of all elastomers.

#### Physical Properties:

ASTM Method	Property	Avg. Value	Min. Value
D412 Method A	Tensile Strength	3330 psi	2750 psi
	Ultimate Elongation	115%	80%
	Stress at Elongation		
	- M25	1120 psi	psi
	- M50	1660 psi	1300 psi
	- M100	2805 psi	2200 psi
	Strain Energy/ Unit Volume at 20% elongation	127 psi	
	Calculated Shear Modulus, G	2381 psi	
	Calculated Youngs Modulus, E	7144 psi	
	E-secant from the initial slope	6715 psi	
D624, Die B	Tear Strength	288 psi	
		Max Value	Min Value
D2240, Type A	Durometer Hardness	95 points	85 points
D297, 15	Specific Gravity	1.57	
D395, Test B	Compression Set	Avg. Value	
	22 hrs @ 392F	23%	
	70 hrs @ 392F	33%	
	336 hrs @ 392F	46%	

D865	Dry Heat Aging		
	Change in Tensile	Change in Elongation	Change in Durometer
70 hrs @ 392F	-6%	-2%	-3 points
168 hrs @ 392F	-4%	25%	0 points
336 hrs @ 392F	5%	39%	1 points
1000 hrs @ 392F	-1%	43%	-2 points

#### Temperature Data

D746	Brittle Point -40F
D1329	Temp Retraction TR-10 36F
	Glass Transition 37F
	Operating Temp 425F

Shelf Life 20 years

### Meets specification:

Halliburton ES-R-14-3, ES-R-12, 601.30000

Dresser Rand 091-065

Baker BPS-D202, AP900, C201

REDA MS-10-244

Solar-Caterpillar ES 2028-1 AA



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