

AFLAS[®] 90A
Fluoro Rubber (FEPM)
Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour				black		black
hardness	23°C	ISO 868	Shore A	90 ± 5	Shore A	90 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5,5	psi	≥ 795
tensile strength	23°C	DIN 53 504	MPa	≥ 6	psi	≥ 870
elongation at break	23°C	DIN 53 504	%	≥ 140	%	≥ 140
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 5	lbf/inch	≥ 28
spec. gravity	23°C	ISO 1183	kg/m ³	1640	g/cm ³	1,64
rebound elasticity	23°C	DIN 53 512	%	7	%	7
abrasion	23°C	DIN 53 516	mm ³		mm ³	
compression set	*	ISO 815	%		%	
compression set	**	ISO 815	%		%	
compression set	***	ISO 815	%		%	
minimum service temperature			°C	-5	°F	23
maximum service temperature			°C	200	°F	392
temp. max water/steam			°C	170	°F	338
temp. max hot air			°C	230	°F	446

* 24h 70°C 25% def.

** 24h 100°C 25% def.

*** 24h 150°C 25% def.

Chemical Properties

Copolymer, based on fluoro

Resistant to: water, steam, greases, crude oil, mineral oil, gasoline, aliphatic and aromatic hydrocarbons, alcohols

Not resistant to: halogenes, ketones and most fluids containing amines

Foodstuff approval -