

FPM black (VITON[®]) **Fluoro Rubber**
Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour				black		black
hardness	23°C	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 7	psi	≥ 1015
tensile strength	23°C	DIN 53 504	MPa	≥ 9	psi	≥ 1305
elongation at break	23°C	DIN 53 504	%	≥ 140	%	≥ 140
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 7	lbf/inch	≥ 39
spec. gravity	23°C	ISO 1183	kg/m ³	1870	g/cm ³	1,87
rebound elasticity	23°C	DIN 53 512	%	9	%	9
abrasion	23°C	DIN 53 516	mm ³		mm ³	
compression set	*	ISO 815	%	≤13	%	≤13
compression set	**	ISO 815	%	≤	%	≤
compression set	***	ISO 815	%	≤	%	≤
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	210	°F	410
temp. max water/steam			°C		°F	
temp. max hot air			°C	280 short	°F	536 short

* 24h 70°C 25% def.

** 24h 100°C 25% def.

*** 24h 175°C 25% def.

Chemical Properties

Copolymer, based on fluoro

Resistant to: fats, crude oil, mineral oil, gasoline, aliphatic and aromatic hydrocarbons

Not resistant to: glycols, ketones, most fluids containing amines, water/steam