

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

properties	condition	standard	unit		unit	
colour				brown		brown
hardness	23°C	ISO 868	Shore A	80 ± 5	Shore A	80 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 6	psi	≥ 870
tensile strength	23°C	DIN 53 504	MPa	≥ 8	psi	≥ 1160
elongation at break	23°C	DIN 53 504	%	≥ 150	%	≥ 150
tear strength	23°C	DIN ISO 34-1	kN/m	≥	lbf/inch	≥
spec. gravity	23°C	ISO 1183	kg/m ³	2440	g/cm ³	2,44
rebound elasticity	23°C	DIN 53 512	%	7	%	7
abrasion	23°C	DIN 53 516	mm ³	220	mm ³	220
compression set	*	ISO 815	%	≤ 7	%	≤ 7
compression set	**	ISO 815	%	≤ 9	%	≤ 9
compression set	***	ISO 815	%	≤ 14	%	≤ 14
minimum service temperature			°C	-20	°F	-4
maximum service temperature			°C	220	°F	428
temp. max water/steam			°C		°F	
temp. max hot air			°C	300 short	°F	572 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 and water/steam

Foodstuff approval:

FDA compliant in it's active substances to:

- the Positive List for water-based foods under the Section 177.2600, CFR 21, "Rubber Articles Intended For Repeated Use", of the Food and Drug Administration (FDA), USA
- the Positive List for fatty foods (including milk and cooking oil), under the Section 177.2600, § 21 CFR "Rubber Articles Intended For Repeated Use", of the Food and Drug Administration (FDA), USA.