

**FPM / Viton**                      **Fluoro Rubber**  
 Mechanical, Physical and Thermal Properties

Properties	Condition	Standard	Unit	Unit	Unit	Unit
Colour				<b>brown</b>		<b>brown</b>
Hardness	<b>23°C</b>	ISO 868	Shore A	<b>82 ± 5</b>	Shore A	<b>82 ± 5</b>
Modulus 100%	<b>23°C</b>	DIN 53 504	MPa	<b>≥6</b>	psi	<b>≥870</b>
Tensile Strength	<b>23°C</b>	DIN 53 504	MPa	<b>≥9</b>	psi	<b>≥1305</b>
Elongation at Break	<b>23°C</b>	DIN 53 504	%	<b>≥200</b>	%	<b>≥200</b>
Tear Strength	<b>23°C</b>	DIN ISO 34-1	kN/m	<b>≥20</b>	lbf/inch	<b>≥114</b>
Spec. Gravity	<b>23°C</b>	ISO 1183	kg/m <sup>3</sup>	<b>2530</b>	g/cm <sup>3</sup>	<b>2,53</b>
Rebound Elasticity	<b>23°C</b>	DIN 53 512	%	<b>7</b>	%	<b>7</b>
Abrasion	<b>23°C</b>	DIN 53 516	mm <sup>3</sup>	<b>175</b>	mm <sup>3</sup>	<b>175</b>
Compression Set	<b>*</b>	ISO 815	%	<b>≤17</b>	%	<b>≤17</b>
Compression Set	<b>**</b>	ISO 815	%	<b>≤20</b>	%	<b>≤20</b>
Compression Set	<b>***</b>	ISO 815	%	<b>≤26</b>	%	<b>≤26</b>
Minimum Service Temperature			°C	<b>-20</b>	°F	<b>-4</b>
Maximum Service Temperature			°C	<b>220</b>	°F	<b>428</b>
Temp. max water/stream			°C		°F	
Temp. max hot air			°C	<b>300 short</b>	°F	<b>572 short</b>

\* 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