

FPM/Viton

Fluoro Rubber

Mechanical, Physical and Thermal Properties

| properties | condition | standard | unit | unit | unit | unit |
|-----------------------------|-----------|--------------|-------------------|-----------|-------------------|-----------|
| colour | | | | brown | | brown |
| hardness | 23°C | ISO 868 | shore A | 85 ± 5 | shore A | 85 ± 5 |
| modulus 100% | 23°C | DIN 53 504 | MPa | ≥6 | psi | ≥ 870 |
| tensile strength | 23°C | DIN 53 504 | MPa | ≥9 | psi | ≥ 1305 |
| elongation at break | 23°C | DIN 53 504 | % | ≥ 200 | % | ≥ 200 |
| tear strength | 23°C | DIN ISO 34-1 | kN/m | ≥ 20 | lbf/inch | ≥ 114 |
| spec. gravity | 23°C | ISO 1183 | kg/m ³ | 2530 | g/cm ³ | 2,53 |
| rebound elasticity | 23°C | DIN 53 512 | % | 7 | % | 7 |
| abrasion | 23°C | DIN 53 516 | mm ³ | 175 | mm ³ | 175 |
| compression set | * | ISO 815 | % | ≤17 | % | ≤17 |
| compression set | ** | ISO 815 | % | ≤ 10 | % | ≤ 10 |
| compression set | *** | ISO 815 | % | ≤ 15 | % | ≤ 15 |
| 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, water