

# V01 - FPM brown

Fluoro Rubber

## Mechanical, Physical and Thermal Properties

| PROPERTIES                  | CONDITION     | STANDARD     | UNIT              |        | UNIT              |        |
|-----------------------------|---------------|--------------|-------------------|--------|-------------------|--------|
| Colour                      |               |              |                   | *      |                   | brown  |
| hardness                    | 23°C/3 sek.   | ISO 868      | Shore A           | 82 ± 5 | Shore A           | 82 ± 5 |
| hardness                    | 23°C /15 sek. | ISO 868      | Shore A           |        | Shore A           |        |
| 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   | %                 | ≥ 130  | %                 | ≥ 130  |
| tear strength               | 23°C          | DIN ISO 34-1 | kN/m              | 5,4    | lbf/inch          | 30,8   |
| spec. gravity               | 23°C          | ISO 1183     | kg/m <sup>3</sup> | 2540   | g/cm <sup>3</sup> | 2,54   |
| rebound elasticity          | 23°C          | DIN 53 512   | %                 | 7      | %                 | 7      |
| abrasion                    | 23°C          | DIN 53 516   | mm <sup>3</sup>   | 261    | mm <sup>3</sup>   | 261    |
| compression set             | *             | ISO 815      | %                 | ≤ 17   | %                 | ≤ 17   |
| compression set             | **            | ISO 815      | %                 | ≤ 17   | %                 | ≤ 17   |
| compression set             | ***           | ISO 815      | %                 |        | %                 |        |
| 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                |        | °F                |        |

\* 24h 70°C 25% def. \*\* 24h 100°C 25% def. \*\*\* 24h 150°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