

# FPM diet

## Fluorinated rubber, Tetrapolymer, white

- FPM with foodstuff approval according FDA, approval according 3A-Sanitary Class I, recommended for approval according EU1935/2004
- Resistant to mineral oil, HFD-U and HETG, to cold and hot water as well as steam
- Applicable for static seals, rod and piston seals, wiper seals and rotary seals

Properties	Value	Unit	DIN Standard
Hardness	84 ± 5	Shore A	DIN ISO 7619-1
Density	2,59	g/cm <sup>3</sup>	DIN EN ISO 1183-1
100% Modulus	3,9	MPa	DIN 53504
300% Modulus	5,0	MPa	DIN 53504
Elongation at break	452	%	DIN 53504
Tensile strength	10,5	MPa	DIN 53504
Compression set 23°C/70h	36,8	%	DIN ISO 815-1
Compression set 150°C/22h	48,5	%	DIN ISO 815-1
Compression set 175°C/22h	61,8	%	DIN ISO 815-1
Rebound resilience	7	%	DIN ISO 4662:2017
Tear resistance	11,7	N/mm	DIN ISO 34-1 A
Abrasion resistance	200	mm <sup>3</sup>	DIN ISO 4649 B
min. Service temperature	-25	°C	
max. Service temperature	+210	°C	

### Confirmation according FDA

Hereby we, Trygonal, Kunststoffinnovationen GmbH, confirm, that all single components used for our compound named «FPM diet white» are listed on Code of Federal Regulation of U.S. Food and Drug Administration (FDA), Rockville MD. They are mentioned under following subchapters: 21CFR 177.2600.

### Approval according 3A-Sanitary 18-03 Class I (21.08.1999)

Hereby we, Trygonal, Kunststoffinnovationen GmbH, confirm, that the changes of all of the tested parameters are within the required maximum limits according Class I.

### Confirmation according EU1935/2004

The confirmation according FDA mentioned above provides an approval according EU1935/2004. Due to unavoidable technical factors or due to the form of delivery of the elastomeric pre-materials traces of non-specified impurities could be included. A compulsory test should be applied to the final product.

Allowed for contact with foods. Not permitted for medical articles (implants)!

All above stated data result from random tests which were taken from the ongoing production. All data were established based on standard test-specimen according to ISO, DIN and ASTM standards and can basically not be carried over to the construction element.

Our applied technical advice, either oral, written or through tests is given according to our best knowledge. However, this information is to be considered as non-obligatory instruction, also in terms of any protective rights of a third party, and does not exempt you from testing our product in reference to its suitability for the intended process and purpose. Utilisation, application and processing of the products occur entirely outside of our control and are therefore exclusively your responsibility. However, should a case of liability come into question, it will be limited to all damages in the value of the product which we delivered and you used. By all means, we do warrant the impeccable quality of our products in accordance with our general sales and delivery conditions.