



EPDM diet

Ethylene-propylene-diene-rubber

Standard colour: white

- Food-compliant EPDM
- Resistant to HFC, cold water, hot water and steam, diluted acids and bases
- Applicable for rod and piston seals, wiper seals, rotary seals and static seals

Properties	Value	Unit	DIN Standard
Hardness	87 ± 5	Shore A	DIN 53505
Density	1,162	g/cm ³	DIN EN ISO 1183-1
Compression set 23°C/72h	28,9	%	DIN ISO 815-1
Compression set 70°C/24h	31,6	%	DIN ISO 815-1
Compression set 100°C/24h	27,8	%	DIN ISO 815-1
Elongation at break	246	%	DIN 53504
Tensile strength	8,4	MPa	DIN 53504
100% modulus	4,7	MPa	DIN 53504
Rebound resilience	46	%	DIN 53512
Abrasion	108	mm ³	DIN 53516
Tear strength	3,6	N/mm	DIN 53515
min. service temperature short	- 40	°C	
max. service temperature constant	+135	°C	
max. temperature hot air & steam	+130	°C	
max. temperature hot air & steam short	+150	°C	

Confirmation according FDA

Hereby we, Trygonal, Kunststoffinnovationen GmbH, confirm, that all single components used for our compound named «**EPDM diet**» 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**

Allowed for contact with foods.

Allowed in pharmacological and medical applications¹.

Not permitted for implants.

¹ We explicit indicate that several tests which might confirm the suitability of the material for pharmacological and medical applications have to be done by the user.

All above stated data results from random tests which were taken from the ongoing production. All data was established based on standard test-products according to ISO, DIN and ASTM standards and can basically not be carried over to the completed seal.

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.