



# HPU diet

Hydrolysis resistant polyurethane

Standard colour: transparent

- Food-compliant HPU
- Resistant to mineral oil and diluted acids and bases
- Applicable for Rod and Piston Seals, Wiper Seals, Static Seals, Backup Rings and Guide Rings

Properties	Value	Unit	DIN Standard
Hardness	95 ± 5	Shore A	DIN 53505
Hardness	48 ± 3	Shore D	DIN 53505
Density	1,18	g/cm <sup>3</sup>	DIN EN ISO 1183-1
Compression set 70°C/24h		%	DIN ISO 815-1
Compression set 70°C/70h	28	%	DIN ISO 815-1
Compression set 100°C/24h		%	DIN ISO 815-1
Elongation at break	546	%	DIN 53504
100% modulus		N/mm <sup>2</sup>	DIN 53504
300% modulus		N/mm <sup>2</sup>	DIN 53504
Rebound resilience		%	DIN 53512
Tear strength		N/mm	DIN 53515
min. service temperature	-40	°C	
max. service temperature	+100	°C	

## Confirmation according FDA

Hereby we, Trygonal, Kunststoffinnovationen GmbH, confirm, that all single components used for our compound named «**HPU 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 175.105, 21CFR 177.1390, 21CFR 177.1680**

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.