



HPU premium Red

Hydrolyses resistant Polyurethane, suitable for foodstuff.

Standard colour: **Red**, similar RAL3020

- Resistant against mineral oil, HFD-U and HETG-fluids, sour oils and gases, cold water and diluted acids and bases
- Applicable for Rod and Piston seals, Wiper seals, Rotary and Static seals.

Properties	Unit	Din Standard	Value
Hardness	Shore A	DIN ISO 7619-1	95 ± 3
Hardness	Shore D	DIN ISO 7619-1	49 ± 3
Tensile strength	MPa	DIN53504	49.2
Density	g/cm ³	DIN EN ISO 1183-1	1.19
Compression set 70°C/24h	%	DIN ISO 815-1	20
Compression set 70°C/70h	%	DIN ISO 815-1	22.5
Compression set 100°C/24h	%	DIN ISO 815-1	27.9
Elongation at break	%	DIN53504	382
100% modulus	N/mm ²	DIN53504	15.3
300% modulus	N/mm ²	DIN53504	44.5
Rebound resilience	%	DIN53512	39
Tear strength	N/mm	DIN53515	40.1
Abrasion resistance	mm ³	DIN ISO 4649 B	28
Min. service temperature	°C		-30
Max. service temperature constant	°C		+110

Confirmation according FDA

All single components used for the compound named **HPU Red** are listed on Code of Federal Regulations of U.S Food and Drug Administration (**FDA**), Rockville MD. They are mentioned under the following sub chapters: **21 CFR 177.1680**.

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

We explicitly point out that the user himself has to undertake tests, which will reassure the adequacy of the material mentioned above for the use in pharmaceutical and medical applications.

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.