



# HPU premium

Hydrolyses resistant polyurethane

Standard colour: red, similar RAL 3020

- Resistant against mineral oil, HFD-U and HETG = biological base, acid oils and gases, cold water and diluted acids and bases
- Applicable for rod and piston seals, wiper seals, rotary seals, static seals, backup rings and guide rings

Properties	Value	Unit	DIN Standard
<b>Hardness</b>	94 ± 3	Shore A	DIN 53505
<b>Hardness</b>	49 ± 3	Shore D	DIN 53505
<b>Density</b>	1,21	g/cm <sup>3</sup>	DIN EN ISO 1183-1
<b>Compression set 70°C/24h</b>	20	%	DIN ISO 815-1
<b>Compression set 70°C/70h</b>	22	%	DIN ISO 815-1
<b>Compression set 100°C/24h</b>	27	%	DIN ISO 815-1
<b>Elongation at break</b>	382	%	DIN 53504
<b>100 % modulus</b>	15,3	N/mm <sup>2</sup>	DIN 53504
<b>300 % modulus</b>	44,5	N/mm <sup>2</sup>	DIN 53504
<b>Rebound resilience</b>	39	%	DIN 53512
<b>Tear strength</b>	40,1	N/mm	DIN 53515
<b>min. service temperature</b>	-30	°C	
<b>max. service temperature short</b>	+125	°C	
<b>max. service temperature constant</b>	+110	°C	

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.

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