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Technical data sheet

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HPU-Prime 95 ShA red

HPU-PRIME is a suitable material for most polyurethane seal profiles and can also be used as a standard sealing material for a wide range of seals and other machined products.

Properties	Value	Unit	DIN Standard
Hardness	95±3	Shore A	DIN ISO 7619-1
Hardness	48±3	Shore D	DIN ISO 7619-1
Density	1,2	g/cm ³	DIN EN ISO 1183-1
100% Modulus	14,9	Mpa	DIN 53504
300% Modulus	42,1	Mpa	DIN 53504
Elongation at break	387	%	DIN 53504
Tensile strength	50	Mpa	DIN 53504
Compression set 70°C/22h	22	%	DIN ISO 815-1
Compression set 100°C/22h	30	%	DIN ISO 815-1
Rebound resilience	40	%	DIN ISO 4662:2017
Tear strength	115	kN/m	DIN ISO 34-1 A
Abrasion resistance	25	mm ³	DIN ISO 4649 B
Min. Service temperature	-20	°C	
Max. Service temperature	+115	°C	

Advantages and stability:

- **Hydrolysis-resistant polyurethane (PU) compound**, characterized by excellent compressive strength, mechanical stability, and long-term durability even in contact with hot water.
- Suitable for applications involving flammable hydraulic fluids such as HFA and HFB types, offering reliable performance under demanding operating conditions.
- **Excellent resistance** to both mineral and synthetic oils, ensuring compatibility with a wide range of hydraulic and lubrication systems.
- Withstands water emulsions up to 90 °C while maintaining physical integrity and sealing efficiency.

Foodstuff approval:

FDA- approved*
EU 10/2011 *

*The user is responsible for performing the necessary tests to confirm that the above-mentioned material is suitable for use in pharmaceutical and medical applications.

All data provided above are based on random samples taken from our ongoing production. The results were determined using standard test specimens in accordance with ISO, DIN, and ASTM methods. These results cannot be directly applied to specific finished components. Any technical information or advice we provide—whether verbal, written, or based on testing—is given to the best of our knowledge. Nevertheless, this information should be regarded as non-binding guidance and does not release the user from the obligation to verify the suitability of our products for their intended process or application. Possible third-party property rights must also be observed. Since the use, application, and processing of our products take place beyond our control, they remain solely the responsibility of the user. In any case where liability may arise, it shall be limited to damages not exceeding the value of the product supplied and used. We do, however, guarantee the flawless quality of our products in accordance with our general terms and conditions of sale and delivery.

