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Technical data sheet

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HPU-Apex 58 ShD black

Properties	Value	Unit	DIN Standard
Hardness	58±3	Shore D	DIN ISO 7619-1
Density	1,16	g/cm ³	DIN EN ISO 1183-1
100% Modulus	20,1	Mpa	DIN 53504
300% Modulus	46,8	Mpa	DIN 53504
Elongation at break	317	%	DIN 53504
Tensile strength	48	Mpa	DIN 53504
Compression set 70°C/22h	27	%	DIN ISO 815-1
Compression set 100°C/22h	33	%	DIN ISO 815-1
Rebound resilience	40	%	DIN ISO 4662:2017
Tear strength	120	kN/m	DIN ISO 34-1 A
Abrasion resistance	40	mm ³	DIN ISO 4649 B
Min. Service temperature	-30	°C	
Max. Service temperature	+115	°C	

Advantages and stability:

- **Hydrolysis-resistant polyurethane (PU) compound**, offering excellent mechanical strength, dimensional stability, and long-term durability even in contact with hot water. Designed for demanding sealing applications where resistance to wear and deformation is essential.
- **Excellent resistance** to both synthetic and mineral oils, ensuring reliable performance across a wide range of hydraulic and lubrication systems.
- **High temperature tolerance**, resistant to water emulsions up to 90 °C without significant loss of physical properties or sealing performance.
- **Versatile in application** – suitable for most polyurethane seal profiles and can also serve as a standard sealing material for various types of seals and precision-machined components.

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.

