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Technical data sheet

Rev. 10/2025

HPU Soft 85ShA lime green

HPU Prime Soft is a softer version of the standard HPU Prime material, offering enhanced flexibility while maintaining excellent machinability and mechanical stability.

Properties	Value	Unit	DIN Standard
Hardness	85±3	Shore A	DIN ISO 7619-1
Density	1,19	g/cm ³	DIN EN ISO 1183-1
100% Modulus	6,8	Mpa	DIN 53504
300% Modulus	34,1	Mpa	DIN 53504
Elongation at break	367	%	DIN 53504
Tensile strength	45,2	Mpa	DIN 53504
Compression set 22°C/70h	19	%	DIN ISO 815-1
Compression set 70°C/22h	21	%	DIN ISO 815-1
Rebound resilience	45	%	DIN ISO 4662:2017
Tear strength	72	kN/m	DIN ISO 34-1 A
Abrasion resistance	30	mm ³	DIN ISO 4649 B
Min. Service temperature	-25	°C	
Max. Service temperature	+105	°C	

Advantages and stability:

- **Excellent resistance** to mineral oils, HFD-U and HETG fluids, sour oils and gases, cold water, as well as diluted acids and alkalis. The material ensures reliable sealing performance even under chemically aggressive and varying temperature conditions.
- **Versatile in application** – suitable for static sealing elements, rod and piston seals, wiper seals, and rotary sealing systems.
- **Excellent alternative to rubber materials**, ideal for applications requiring softer compounds and outstanding performance in pneumatic systems.

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.

