


## material specification

### s-mart HPU 95 A natural

(hydrolysis resistant polyurethane, 95 shore A)

	property	unit	value	standard
	color		○ natural	
	durometer hardness	Shore A	95 ± 2	DIN 53505
	durometer hardness	Shore D	48 ± 2	DIN 53505
	density	g/cm <sup>3</sup>	1,20 ± 0,01	DIN EN ISO 1183-1
	tensile strength	N/mm <sup>2</sup>	≥ 50	DIN 53504
	elongation at break	%	≥ 330	DIN 53504
	100 % modulus	N/mm <sup>2</sup>	≥ 13	DIN 53504
	compression set: 70°C / 24h, 20 % compression	%	≤ 27	----
	compression set: 100°C / 24h, 20 % compression	%	≤ 33	----
	compression set: 70°C/70h, 10 % compression	%	20	DIN ISO 815
	tear strength	N/mm	≥ 100	DIN ISO 34-1
	rebound resilience	%	29	DIN 53512
	abrasion	mm <sup>3</sup>	17	DIN 53516
	minimum service temperature	°C	-20	----
	maximum service temperature	°C	+110	----

the mentioned data are only valid for test pieces of the corresponding ISO, DIN and ASTM standards and cannot be directly related to gaskets and joints. the values which are marked with the symbols greater than (≥) and smaller than (≤) are nominal values and must be fulfilled of each batch. all values which are not marked are typical values which are only tested on selected samples.