


material specification

s-mart HPU

(hydrolysis resistant polyurethane) on the basis of polyester

property	unit	value	standard
color		 red	
durometer hardness	Shore A	95 ± 2	DIN 53505
durometer hardness	Shore D	48 ± 3	DIN 53505
density	g/cm ³	1,20 ± 0,01	DIN 53479
tensile strength	N/mm ²	≥ 50	DIN 53504
elongation at break	%	≥ 330	DIN 53504
100 % modulus	N/mm ²	≥ 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 53515
rebound resilience	%	29	DIN 53512
abrasion	mm ³	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.