

## material specification

### s-mart LTPU

(low temperature polyurethane) for low temperature application

property	unit	value	standard
color		● blue	
durometer hardness	Shore A	95 ± 2	DIN 53505
durometer hardness	Shore D	48 ± 2	DIN 53505
density	g/cm <sup>3</sup>	1,17 ± 0,01	DIN 53479
tensile strength	N/mm <sup>2</sup>	≥ 50	DIN 53504
elongation at break	%	≥ 450	DIN 53504
100 % modulus	N/mm <sup>2</sup>	≥ 12	DIN 53504
compression set: 70°C / 70h, 10 % compression	%	20	DIN ISO 815
compression set: at - 40 °C	%	45	DIN ISO 815
tear strength	N/mm	80	DIN 53515
rebound resilience	%	50	DIN 53512
abrasion	mm <sup>3</sup>	15	DIN 53516
glass temperature	°C	-42	DIN 53445
minimum service temperature	°C	-50	----
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.