


## material specification

### s-mart PTFE carbon

(polytetrafluoro ethylene filled with 25% carbon)

	property			unit	value	standard
color					● black	
durometer hardness				Shore D	65	DIN 53505
density				g/cm <sup>3</sup>	2,10	ASTM D 1457
tensile strength				N/mm <sup>2</sup>	15	ASTM D 1457
elongation at break				%	180	ASTM D 1457
coefficient of thermal expansion (25°C)				K <sup>-1</sup>	9 · 10 <sup>-5</sup>	DIN 52328
deformation under load, unloaded (14 N/mm <sup>2</sup> , 24 h, 25°C)				%	----	----
coefficient of thermal conductivity				W/m.K	0,60	DIN 62612
minimum service temperature				°C	- 200	----
maximum service temperature				°C	+ 260	----

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 ( $\geq$ ) and smaller than ( $\leq$ ) 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.