


material specification

s-mart PTFE virgin (polytetrafluoro ethylene)

	property			unit	value	standard
color					○ white	
durometer hardness				Shore D	57	DIN 53505
density				g/cm ³	2,17	DIN 53479
tensile strength				N/mm ²	27	DIN 53455
elongation at break				%	300	DIN 53455
tensile modulus				N/mm ²	750	DIN 53457
impact resistance, charpy				kJ/m ²	no break	DIN 54453
coefficient of thermal expansion (25°C)				K ⁻¹	16 · 10 ⁻⁵	DIN 52328
coefficient of sliding				----	0,08	----
coefficient of thermal conductivity				W/m.K	0,23	----
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.