


## material data sheet

### s-mart PA (polyamide)

	property	unit	value	standard
	color		●○ black/natural	
	density	g/cm <sup>3</sup>	1,15	DIN 53479
	ball hardness, wet	N/mm <sup>2</sup>	125	DIN 53456
	durometer hardness, wet	Shore D	77	DIN 53505
	yield stress, wet	N/mm <sup>2</sup>	65	DIN 53455
	elongation at break, wet	%	120	DIN 53455
	tensile-modulus, wet	N/mm <sup>2</sup>	1800	DIN 53457
	impact resistance, Charpy, 23°C, wet	kJ/m <sup>2</sup>	no break	DIN 53453
	water absorption, 23°C, saturation	%	8,5	DIN 53495/12
	moisture absorption 23°C, saturation	%	2,2	DIN 53714
	coefficient of sliding	P=0,05 N/mm <sup>2</sup> V=0,6 m/s	0,35 - 0,42	----
	minimum service temperature	°C	-40	----
	maximum service temperature	°C	+100	----

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.