


material specification

s-mart POM

(polyoxymethelene - polyacetal)

	property			unit	value	standard
color					● ○ black/white	
density				g/cm ³	1,40	DIN 53479
ball hardness H 358/30				N/mm ²	135	DIN 53456
durometer hardness				Shore D	82	DIN 53505
yield stress				N/mm ²	62	DIN 53455
elongation at yield				%	8 - 10	DIN 53455
elongation at break				%	40	DIN 53455
tensile-modulus				N/mm ²	2600	DIN 53457
Izod-Impact resistance						
at + 23°C				kJ/m ²	70	ISO 180
at - 30°C				kJ/m ²	40	ISO 180
water absorption, 23°C, saturation				%	0,8	DIN 53495/L2
coefficient of sliding				μ	0,17 to 0,43	----
minimum service temperature				°C	- 50	----
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.