



material specification

s-mart PAEK (polyaryletherketone)

	property			unit	value	standard
color					 cream	
density				g/cm ³	1,32	ISO R 1183
durometer hardness				Shore D	86	DIN 53505
yield stress				N/mm ²	97	ISO R 527
elongation at yield stress				%	4,9	ISO R 527
elongation at break				%	> 50	ISO R 527
tensile modulus				N/mm ²	3600	ISO R 527
impact resistance, Charpy + 23°C, - 40°C				kJ/m ²	no break	DIN 53453
impact resistance notched, Charpy + 23°C				kJ/m ²	8,2	ISO 179
dimensional stability at high temperature HDT/A				°C	152	ISO R 75
dimensional stability at high temperature HDT/B				°C	> 250	ISO R 75
maximum service temperature				°C	260	----
water absorption 24h / 23°C				%	0,5	ISO R 262 A

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.