


material specification

s-mart HNBR 85A FG black

(hydrogenated acrylonitrile butadiene rubber, 85 shore A, food grade)

	property			unit	value	standard
color					● black	
durometer hardness				Shore A	85 ± 5	DIN 53505
density				g/cm ³	1,35	DIN EN ISO 1183-1
tensile strength				N/mm ²	11	DIN 53504
elongation at break				%	300	DIN 53504
100 % modulus				N/mm ²	5	DIN 53504
compression set: 100°C / 22h				%	35	DIN ISO 815
tear strength				N/mm	28	DIN ISO 34-1
rebound resilience				%		DIN 53512
abrasion				mm ³	170	DIN 53516
minimum service temperature				°C	-25	----
maximum service temperature				°C	+150	----

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.