

material specification

s-mart EPDM

(ethylene propylene diene rubber) peroxide-cured

property	unit	value	standard
color		● black	
durometer hardness	Shore A	85 ± 5	DIN 53505
density	g/cm ³	1,22 ± 0,02	DIN 53479
tensile strength	N/mm ²	≥ 12	DIN 53504
elongation at break	%	≥ 110	DIN 53504
100 % modulus	N/mm ²	≥ 9	DIN 53504
compression set: 100°C / 22h	%	≤ 15	DIN ISO 815
tear strength	N/mm	15	DIN 53515
rebound resilience	%	38	DIN 53512
abrasion	mm ³	120	DIN 53516
minimum service temperature	°C	-50	----
maximum service temperature	°C	+150	----
heat resistance, air 70h/150°C:			
change in durometer hardness	Shore A	+4	DIN 53505
change in tensile strength	%	+15	DIN 53504
change in elongation at break	%	-22	DIN 53504
compatibility with SL-DOT 4 - 168h/100°C			
change in durometer hardness	Shore A	0/-1	DIN 53505
volume change	%	+2,1	DIN 53521

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 (≥) and smaller than (≤) 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.