

material specification

s-mart MVQ 85A FG translucent

(vinyl methyl silicone rubber, 85 shore A, food grade)

property	condition	unit	value	standard
color			● translucent	
hardness	23° C	Shore A	85 ± 5	ISO 868
modulus 100 %	23° C	MPa	4	DIN 53 504
tensile strength	23° C	MPa	9	DIN 53 504
elongation at break	23° C	%	300	DIN 53 504
tear strength	23° C	kN/m	8	DIN ISO 34-1 methode B
spec. gravity	23° C	g/cm ³	1,18	ISO 1183
rebound elasticity	23° C	%	38	DIN 53 512
abrasion	23° C	mm ³		DIN 53 516
compression set	*	%	4	ISO 815
compression set	**	%	7	ISO 815
compression set	***	%	20	ISO 815
minimum service temperature		°C	-60	
maximum service temperature		°C	220	
temp maximum water steam		°C	110	
temp maximum hot air		°C	300 short	
* 24h 70°C 25% deflection ** 24h 100°C 25% deflection *** 24h 175°C 25% deflection				

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.

copolymer, based on methyl, vinyl and silicone

resistant to: hot air, ozone, hot water and acetic acid

not resistant to: alipahitic and aromatic hydrocarbons and esters

foodstuff approval: FDA compliant in it's active substances to 177.2600, CFR 21

(rubber articles intended for repeated use)

turnability: bad

tool-abrasion: low