

Material name, short description	VMQ
Material name, based on technical standards	Vinyl methyl silicone elastomer
Material description / intended use	Silicone elastomer with good mechanical properties over a wide temperature range.
Color	transparent
Compound code	VMQ 50.20-01
Remarks	Thermal conductivity acc. to VDE 0304: 0.24 W.m-1.K-1, dielectric strength acc. to VDE 0303: 23 kV/mm

Mechanical properties

Hardness nominal	50 ±5 Shore A DIN ISO 7619-1
Tensile strength	9 N/mm ² ISO 37-Typ 2
Elongation at break	450 % ISO 37-Typ 2
Compression set	15 % DIN ISO 815-B 24 h, 150 °C
	16 % ASTM D 395-B2 22 h, 300 °C
Tear resistance	18 N/mm ASTM D 624-B

Thermal properties

Operating temperature min.*	-60 °C
Operating temperature max.*	230 °C
Operating temperature max. short term*	250 °C

* Approximate value, dependent on the application

Approvals / Compliance

Drinking water	WRAS (BS 6920-1:2000 specification) cold and hot up to 85 °C
Food & Beverage	FDA CFR 21 - 177.2600 "Rubber articles intended for repeated use" a) - d)
	BfR XV
Specific substance statements	ADI free (free of Animal Derived Ingredients) resp. TSE/BSE related substances



In compliance with **RoHS** and **REACH** directives.

This information is based on our available data. These values are measured on standard test specimens and are within the normal tolerance range of material properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. The customer is solely responsible for quality and suitability of material for his application. He has to test usage and processing prior to use. Angst+Pfister makes no guarantees for the suitability of the material for any given application and assumes no obligation or liability in connection with the information provided above.