VMQ 60.501-01



Sealing Technology Technical Data Sheet

General compound description

Material name, short description

Material name, based on technical standards Compound Code

Compound Coo

Material description / intended use

Color

Mechanical properties	
Density	1.16 g/cm ³ ± 0.02 ASTM D 297
Hardness	60 Shore A ± 5 ASTM D 2240
Tensile strength	8 MPa ASTM D 412
Elongation at rupture	410 % ASTM D 412
Modulus 100 %	2.8 MPa ASTM D 412
Compression set	27 % ASTM D 395-B2 168 h, 175 °C, 25% deformation
	13 % ASTM D 395-B2 22 h, 175 °C, 25% deformation
Tear resistance	18 N/mm DIN 53507

VMQ

Vinyl methyl silicone elastomer VMQ 60.501-01 Silicone elastomer with good mechanical properties over a wide temperature range. black

Thermal properties

Min. operating temperature	-50 °C
Max. operating temperature	+200 °C
TR 10 value	-45 °C ASTM D 1329
Glass transition temperature	-60 °C ASTM D 746

Chemical state change

Air aging	
Value change 1	Hardness: +2 Points Tensile strength: +8 % Elongation at rapture: -15 % Test norm: ASTM D 573 Test parameter: 70 h, 225 °C
Storage in medium	
Value change 1	Medium: IRM 903 Oil (ASTM 3) Hardness: -17 Points Volume: +40 % Test norm: ASTM D 471 Test parameter: 168 h, 150 °C
Value change 2	Medium: IRM 902 Oil (ASTM 2) Hardness: -10 Points Weight: +8 % Test norm: ASTM D 471 Test parameter: 168 h, 150 °C

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.