

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001
- IIP (Investors in People)

INDUSTRIES AND APPLICATIONS



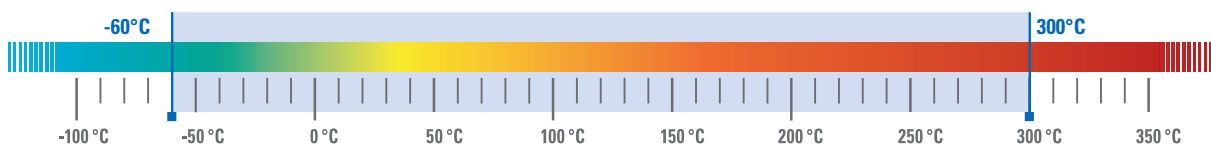
## Silicone VMQ P10 - P 90 (300°C/280°C)

### Key properties

- High Temperature resistant
- Peroxide curing
- Temperature range -60 °C - 300 °C
- With special settings up to -90 °C possible
- Resistant to UV and ozone (resistant to radiation and non-aging)
- Resistant to many chemicals
- Very good fire resistance
- No toxic combustion gases
- Free of plasticiser
- For many colours our silicone product conforms with recommendation XV BfR and CFR 21 FDA §177.2600 or USP Class VI. Please get directly in touch with us.



### Application temperature



### Material Qualities

| Property               | Standard                    | P10 - 300    | P20 - 300   | P30 - 300   | P40 - 300 | P50 - 300 | P60 - 300 | P70 - 300 | P80 - 280 | P90 - 280    |
|------------------------|-----------------------------|--------------|-------------|-------------|-----------|-----------|-----------|-----------|-----------|--------------|
| Hardness [Shore A]     | DIN 53505<br>DIN EN ISO 868 | 10<br>+10/-0 | 20<br>+8/-3 | 30<br>+8/-3 | 40±5      | 50±5      | 60±5      | 70±5      | 80±5      | 90<br>+0/-10 |
| Density [g/cm³]        | DIN 53479<br>ISO/R 1183     | 1.07         | 1.11        | 1.11        | 1.12      | 1.15      | 1.17      | 1.18      | 1.19      | 1.20         |
| Tensile Strength [MPa] | DIN 53504<br>ISO/DIS 37     | 6.3          | 8.6         | 9.0         | 9.5       | 10.5      | 10.4      | 10.7      | 10.1      | 8.3          |
| Elongation @ Break [%] | DIN 53504<br>ISO/DIS 37     | 1200         | 920         | 700         | 550       | 480       | 390       | 400       | 400       | 300          |

(Continued on the next page)

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**Certified management system by:**

- IATF16949
- ISO9001
- ISO13485
- ISO14001
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**When it comes  
to competence**

TECHNICAL DATASHEET

## INDUSTRIES AND APPLICATIONS

**Silicone VMQ P10 - P 90 (300°C/280°C)****Material Qualities****Silicone VMQ P10 - P 90 (300°C/280°C)**

| Property                    | Standard                | P10 - 300                | P20 - 300                | P30 - 300                | P40 - 300                | P50 - 300                | P60 - 300                | P70 - 300                | P80 - 280                | P90 - 280                |
|-----------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Tear Strength [N/mm]        | ASTM D624B              | 17.5                     | 18                       | 16.5                     | 16                       | 20                       | 20                       | 22                       | 25                       | 19                       |
| Compression Set [%]         | DIN ISO 815 (22h/175°C) | 40                       | 35                       | 45                       | 45                       | 50                       | 50                       | 40                       | 50                       | 55                       |
| Dielectric Strength [KV/mm] | VDE 0303                | 20                       | 20                       | 20                       | 20                       | 20                       | 20                       | 20                       | 20                       | 20                       |
| Operation Temperature [°C]  |                         | -60 / +300               | -60 / +300               | -60 / +300               | -60 / +300               | -60 / +300               | -60 / +300               | -60 / +300               | -40 / +280               | -40 / +280               |
| Colour                      |                         | light ivory or blue grey | light ivory or blue grey | light ivory or blue grey | light ivory or blue grey | light ivory or blue grey | light ivory or blue grey | light ivory or blue grey | light ivory or blue grey | light ivory or blue grey |