### **BIW Isolierstoffe GmbH**

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INDUSTRIES AND APPLICATIONS

### **Certified management system by:**

- IATF16949
- ISO9001
- IS013485
- IS014001
- IS050001



**TECHNICAL DATASHEET** 



# Silicone VMQ S030 - S080 (300 °C)

## **Key properties**

- Closed-cell structural foam
- High Temperature resistant
- Temperature range -60 °C 300 °C
- Resistant to UV and ozone (resistant to radiation and non-aging)
- Very good fire resistance
- No toxic combustion gases
- Free of plasticiser





## **Application temperature**

| -60°C   |           |       |        |               |           | 300°C        |
|---------|-----------|-------|--------|---------------|-----------|--------------|
|         |           |       |        |               |           |              |
|         |           |       |        |               |           |              |
| -100 °C | -50°C 0°C | 50 °C | 100 °C | 150 °C 200 °C | 250 °C 30 | )0 °C 350 °C |

## **Material Qualities**

| Property                     | Standard                    | S030 - 300                  | S040 - 300                  | S050 - 300                  | S060 - 300                  | S070 - 300                  | S080 - 300                  |
|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Hardness<br>[Shore A]        | DIN 53505<br>DIN EN ISO 868 | ~ 8                         | ~ 8-15                      | ~ 15                        | ~ 20                        | ~ 25                        | ~ 30                        |
| Density<br>[g/cm³]           | DIN 53479<br>ISO/R 1183     | 0.3±0.1                     | 0.4±0.1                     | 0.5±0.1                     | 0.6±0.1                     | 0.7±0.1                     | 0.8±0.1                     |
| Elongation @ Break<br>[%]    | DIN 53504<br>ISO/DIS 37     | 150                         | 150                         | 200                         | 200                         | 250                         | 250                         |
| Compression Set<br>[%]       | DIN ISO 815<br>(22h/175°C)  | 50                          | 40                          | 40                          | 40                          | 35                          | 35                          |
| Burning behaviour<br>[class] | UL94                        | HB self-clas-<br>sification |

(Continued on the next page)

All information shown in this data sheet is based on our testing and experience and is to the best of our knowledge. It represents an accurate presentation of the product. The data are typical values and are not to be used as the end use specification. It is the customers' responsibility to test the suitability of the material for their application. Any recommendations for use are for guidance only and are offered without warranty or guarantee. Subject to change without notice.

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## **Material Qualities**

## Silicone VMQ S030 - S080 (300 °C)

| Property                             | Standard | S030 - 300                  | S040 - 300                  | S050 - 300                  | S060 - 300                  | S070 - 300                  | S080 - 300                  |
|--------------------------------------|----------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| Thermal<br>Conductivity<br>[W/(m K)] |          | 0.08                        | 0.1                         | 0.12                        | 0.13                        | 0.15                        | 0.18                        |
| Operation Tempe-<br>rature<br>[°C]   |          | -60 / +300                  | -60 / +300                  | -60 / +300                  | -60 / +300                  | -60 / +300                  | -60 / +300                  |
| Colour                               |          | Light ivory or grey<br>blue |

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