

# POLSIL® MV AB

# POLSIL® MV AB/S

Two-component silicone rubbers for electrical applications

## PRODUCT DESCRIPTION

POLSIL® MV AB and POLSIL® MV AB/S are addition curing, two-component liquid silicone elastomers which after the addition of a catalyst cures at room temperature. The curing time may be shortened at higher temperature (i.e. up to 6 h at 70°C).

The rubbers are suitable for protection of electronic and telecommunication systems against influence of external factors and for stiffening and protecting (flooding) photovoltaic cells in solar panels against impact of climatic factors in the conditions of variable temperatures ranging from -50 to +180°C.

## CHARACTERISTICS

PARAMETERS	Polsil® MV AB - A	Polsil® MV AB - B
Appearance	low viscous liquid	low viscous liquid
Colour	transparent	transparent
Specific gravity at 25°C	ca. 0,98 g/cm <sup>3</sup>	ca. 0,98 g/cm <sup>3</sup>
Viscosity at 25°C	3500 ± 500 cP	3500 ± 500 cP

### Properties of the composition after mixing the components 1 ÷ 1

Viscosity at 25°C	ca. 3500 mPa s
Pot life at 25°C	ca. 240 minut
Curing time at 25°C	max 24 h
Consistency after curing	Semi-liquide (transparent gel)
Penetration after 24 h from mixing the components 1/10 mm	200 - 250

PARAMETERS	Polsil® MV AB/S – A	Polsil® MV AB/S – B
Appearance	low viscous liquid	low viscous liquid
Colour	transparent	transparent
Specific gravity at 25°C	ca. 0,98 g/cm <sup>3</sup>	ca. 0,98 g/cm <sup>3</sup>
Viscosity at 25°C	2000 ± 500 cP	2000 ± 500 cP

### Properties of the composition after mixing the components 1 ÷ 1

Viscosity at 25°C	ca. 2500 cP
Pot life at 25°C	ca. 120 minut
Curing time at 25°C	max 24 h
Consistency after curing	solid (transparent rubber)

**PREPARATION OF THE COMPOSITION:**

100 parts by weight Polsil® MV AB or Polsil® MV AB/S – part A

100 parts by weight Polsil® MV AB or Polsil® MV AB/S – part B

Mix two components in adequate proportions in a mechanical or manual manner. It is recommended to place the composition in the vacuum chamber (30-60 mbar) in order to eliminate any entrapped air. During deaeration process which should not take more than 5 minutes the silicone mixture foams and expands to 5 times of initial

volume and then returns to its previous volume. Wait then 2 minutes and pull the material out of the chamber. Pour the ready composition into element and wait until crosslinking. After complete crosslinking, the obtained composition has consistency of semi-liquid gel (Polsil® MV AB) or transparent silicone rubber (Polsil® MV AB/S).

**Storage:**

Store in original packaging, in dry rooms, at temp. from +5 to +25°C.

**Warranty period:**

12 months from the date of manufacture.

**Packaging:**

1, 5, 30 kg

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**Producer's notes**

The information contained in this document is given in good faith based on our current knowledge. However, this shall not constitute a guarantee for any specific product features. Each user bears the full responsibility for making its own determination as to the suitability of product for its own particular purpose. Because actual use of product by the user is beyond our control, such use is within the exclusive responsibility of the user, and we cannot be held responsible for any loss incurred through incorrect or faulty use of the product. For more detailed information please contact us in writing or by phone.



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