

## PRODUCT DATA SHEET

# SikaMelt<sup>®</sup>-259

High performance pressure sensitive adhesive

**TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)**

Chemical base	Thermoplastic rubber
Color (CQP001-1)	Yellowish
Cure mechanism	Physical hardening
Density	0.96 kg/l
Viscosity (by Brookfield)	at 190 °C 10 000 mPa·s
Softening temperature (CQP538-5)	135 °C
Application temperature	170 – 190 °C short term max. 1 h 200 °C <sup>A</sup>
SAFT (CQP560-1)	95 °C
Static shear adhesion (CQP566-1)	9 kg <sup>B</sup>
Peel strength (CQP568-1)	45 N/25 mm <sup>B</sup>
Shelf life	24 months

CQP = Corporate Quality Procedure

<sup>A)</sup> only valid for nozzle<sup>B)</sup> 23 °C 50 % r.h.
**DESCRIPTION**

SikaMelt<sup>®</sup>-259 is a pressure sensitive hot melt adhesive based on thermoplastic rubber for a wide range of applications. Due to its high cohesion and initial strength, SikaMelt<sup>®</sup>-259 is suitable for fixation applications when bonded in hot state soon after adhesive application. It provides a good load resistance even when exposed to elevated temperature.

**PRODUCT BENEFITS**

- High cohesion and initial strength
- Very good heat resistance
- Improved odor
- Wide adhesion range

**AREAS OF APPLICATION**

SikaMelt<sup>®</sup>-259 is designed for assembly bonding in hot state. It is widely used for carpet bonding or fixation of light weight parts in the Automotive Industry. SikaMelt<sup>®</sup>-259 has a wide adhesion range and adheres to papers, films and metal foils, textiles, foams and a variety of other materials. SikaMelt<sup>®</sup>-259 is furthermore suitable for the manufacturing of self-adhesive products where a good temperature resistance is required.

SikaMelt<sup>®</sup>-259 is not to be used on substrates containing monomeric plasticizer.

This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

## CURE MECHANISM

SikaMelt®-259 is a physically hardening adhesive.

## CHEMICAL RESISTANCE

SikaMelt®-259 is resistant to aqueous surfactant, weak acids and caustic solutions.

The chemical resistance is influenced by several factors such as chemical composition, concentration, period of exposure and temperature. Therefore a project related testing in case of chemical or thermal exposure is required.

## METHOD OF APPLICATION

### Surface preparation

Surfaces must be clean, dry and free from grease, oil and dust.

Based on the surface and type of material, a physical or chemical pre-treatment might be required. Type of pre-treatment must be determined by preliminary tests.

### Application

With adequate processing equipment SikaMelt®-259 can be applied directly or by transfer method. It can be applied as film, dot, bead or spray application. For automated applications a suitable filter system is required.

Due to the better adhesion performance the direct method is usually chosen whenever possible. The transfer method is often used in combination with substrates that are porous and absorbing such as foams or when they are sensitive to high temperature such as thin PE films. To protect the adhesive surface against dust, light and oxygen it is necessary to cover the adhesive film with silicone coated paper or foil.

To meet the required application properties the adhesive viscosity can be adjusted by adapting the application temperature (see diagram 1).

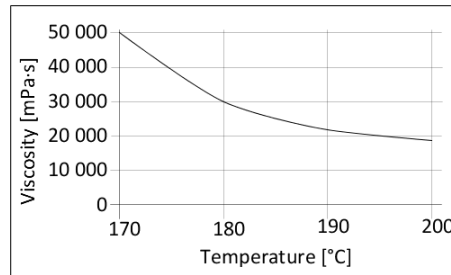


Diagram 1: Viscosity as function of temperature

During breaks SikaMelt®-259 is to be processed as follows:

For breaks  $\geq 1$  h the heating needs to be lowered to 80 °C and for breaks  $\geq 4$  h the heating needs to be switched off.

To ensure a constant quality during the whole production process it is mandatory to protect the adhesive in the melting tank with nitrogen or carbon dioxide (to avoid possible reaction of the product with oxygen).

For advice on selecting and setting up suitable processing equipment contact the System Engineering Department of Sika Industry.

### Removal

SikaMelt®-259 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent.

Hands and exposed skin have to be washed immediately using hand wipes such as Sika® Cleaner-350H or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

### STORAGE CONDITIONS

SikaMelt®-259 has to be stored at temperature below 40 °C in a dry place.

For transportation purposes, the storage temperature can be exceeded for a period of max. 4 weeks up to 60 °C.

### FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets

## PACKAGING INFORMATION

Box	8 kg
Compartments box	10 kg
Drum	170 kg

## BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

## DISCLAIMER

The information, and, in particular, the recommendations relating to the application and enduse of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

## PRODUCT DATA SHEET

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