

## PRODUCT DATA SHEET

# SikaMelt®-174

Polyolefin Hot Melt with high green strength and long open time

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

Chemical base	Polyolefin
Color (CQP001-1)	Beige
Cure mechanism	Physical hardening
Density (uncured)	0.9 kg/l
Viscosity (by Brookfield)	at 180 °C 5 500 mPa·s
Softening temperature (CQP538-5)	154 °C
Application temperature	170 – 190 °C short term max. 1 h 200 °C <sup>A</sup>
Open time (CQP559-1)	Medium
Green strength (CQP557-1)	2.5 MPa
Shelf life	24 months

CQP = Corporate Quality Procedure <sup>A)</sup> Only valid for nozzle

**DESCRIPTION**

SikaMelt®-174 is a versatile, thermoplastic hot melt adhesive based on polyolefin. With its high green strength and medium open time SikaMelt®-174 offers an excellent suitability for sandwich panel applications.

**PRODUCT BENEFITS**

- Good adhesion on polypropylene
- High green strength
- Long open time
- Very good ageing and heat resistant

**AREAS OF APPLICATION**

SikaMelt®-174 has excellent adhesion properties on polyolefins. It is also suitable to bond on wood, textiles, non-woven materials and (hard-) foams. SikaMelt®-174 was developed for sandwich panel applications where a longer open time and a high green strength are required.

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

## CURE MECHANISM

SikaMelt®-174 is a physically hardening adhesive.

## CHEMICAL RESISTANCE

SikaMelt®-174 is resistant to aqueous surfactant, weak alkaline/ acids solutions and temporarily resistant to fuels, solvents and mineral oils.

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.

### Application

With adequate processing equipment SikaMelt®-174 can be applied as film, dot, bead or spray application. When dispensing SikaMelt®-174 from drums, for applications by slot die or spraying device, first transfer the material to an intermediate tank avoiding air entrapments.

For automated applications a suitable filter system is required.

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

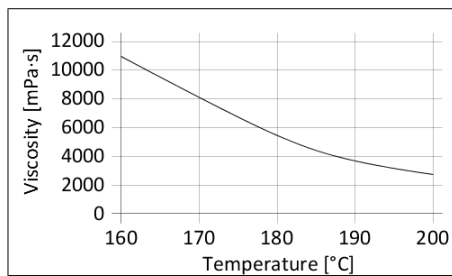


Diagram 1: Viscosity of SikaMelt®-174 as function of temperature

During breaks SikaMelt®-174 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 guarantee a constant quality during the whole production process it is recommended 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

Equipment and application tools can be cleaned with SikaMelt®-005 (see also Cleaning Instructions).

SikaMelt®-174 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®-174 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 Sheet
- Cleaning Instruction

For SikaMelt® PO non-reactive hotmelt equipment

## PACKAGING INFORMATION

Compartments box	10 kg
Drum	155 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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