

PRODUCT DATA SHEET

SikaMelt®-172

High Performance Polyolefin Hot Melt For Assembly and Lamination

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	Polyolefin
Color (CQP001-1)	Honey
CURE MECHANISM	Physical hardening
Density (uncured)	0.9 kg/l
Viscosity (by Brookfield)	at 180 °C 32 500 mPa·s
Softening temperature (CQP538-5)	140 °C
Application temperature	160 – 190 °C short term max 1 h 200 °C ^A
Open time (CQP559-1)	Short
Shelf life	24 months

CQP = Corporate Quality Procedure

^A) 23 °C / 50 % r. h.
DESCRIPTION

SikaMelt®-172 is a multipurpose, thermoplastic hot melt for assembly and lamination. It combines very good heat resistance and initial strength with a broad adhesion range on non-polar and some polar substrates. The fast setting property of SikaMelt®-172 is very beneficial when processing it in applications with short cycle times.

PRODUCT BENEFITS

- Good adhesion on polypropylene without surface treatment
- High initial strength
- Very good ageing and heat resistance
- Suitable for assembly and lamination

AREAS OF APPLICATION

SikaMelt®-172 has very good adhesion properties on non polar olefinic substrates like polypropylene. Therefore it is suitable for permanent bonding on non-polar polymers, wood, textiles, non-woven materials and foams. SikaMelt®-172 is designed for the lamination and assembly of Automotive interior trim parts made of Polypropylene. Due to its modified adhesion range, SikaMelt®-172 can be considered for ABS substrates as well.

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®-172 is a physically hardening adhesive.

CHEMICAL RESISTANCE

SikaMelt®-172 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®-172 can be applied as film, dot, bead or spray application. When dispensing SikaMelt®-172 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).

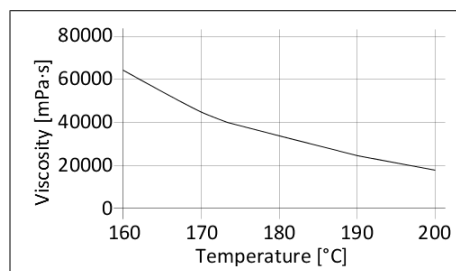


Diagram 1: Viscosity as function of temperature

During breaks SikaMelt®-172 is to be processed as follows:

For breaks ≥ 1 h the heating needs to be lowered to 80 °C and for breaks ≥ 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

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

SikaMelt®-172 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 Sika® Cleaner-350H or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

STORAGE CONDITIONS

SikaMelt®-172 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
- Cleaning Instruction

For SikaMelt® PO non-reactive hotmelt equipment

PACKAGING INFORMATION

Compartment box	10 kg
Pail	15 kg
Pail (Cardboard, siliconized)	18 kg
Bag	25 kg
Drum	145 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 end-use 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 can always refer to the most recent version of the local Product Data Sheet for the relevant product, available on our website. The information in any downloaded version is valid as of the time of download.

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