

TECHNOMELT® AS 4222

July 2021

PRODUCT DESCRIPTION

TECHNOMELT® AS 4222 provides the following product characteristics:

Technology	Polyolefin
Chemical Type	Hot melt adhesive
Cure	Physical setting
Appearance	Colorless/beige
Components	One-component
Viscosity	Medium viscous
Application	Bonding, general assembly and filter application
Application Temperature	170 to 200°C (338 to 392 °F)
Specific Benefits	<ul style="list-style-type: none">• Good heat stability• Good heat resistance• Suitable for low energy non-polar substrates such as polypropylene

TECHNOMELT® AS 4222 is a one-component industrial grade Polyolefin Hot Melt Adhesive. Once applied TECHNOMELT® AS 4222 solidifies to form an elastic film with good heat stability, heat resistance and bond strength. Typical applications include air filter applications. It is a versatile adhesive for many substrates such as polyolefin or other low energy non-polar substrates.

TYPICAL MATERIAL PROPERTIES

Physical Properties

Specific Gravity @ 23°C, g/cm³ ISO 1183-1	0.89
Softening point, °C ASTM E28 (in glycerin)	160
Melting Viscosity @ 180°C, mPa·s (cP) ASTM D3236:	
Spindle 27, RVT:	
@ 170°C	10,500
@ 180°C	8,000
@ 190°C	6,200
@ 200°C	4,800
Open Time, 180°C seconds Henkel method MH 46	23

TYPICAL MATERIAL PERFORMANCE

Tested @ 23°C

Physical Properties :

Hardness, Durometer A ISO 868/15s	85
--------------------------------------	----

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or their strong oxidizing materials.

Please consult the Safety Data Sheet (SDS) for safe handling information of this product.

DIRECTIONS FOR USE

1. Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands.
2. The surfaces of the substrate must be dry and free from oil, grease, and dust.
3. Hotmelt application system with gear pump recommended.
4. When bonding to a substrate with high thermal conductivity the use of a specific application temperature is required for good wetting.
5. Do not heat the product above the specified application temperature range.
6. When the product is not in use do not apply heat, this will degrade the quality of the product and in extreme cases cause carbonization or charring.
7. Carbonized material must be removed mechanically.
8. To internally clean the system add TECHNOMELT® PUR CLEANER 2 to reservoir and continue to purge material until it comes out blue in colour.
9. For cold cleaning of surface soiling on application equipment, conveyor belts or other machine parts TECHNOMELT® CLEANER MELT-O-CLEAN can be applied. It is based on natural citrus extract and facilitates manual cleaning even in case of pronounced charring. Before using TECHNOMELT® CLEANER MELT-O-CLEAN, its suitability for lacquered and synthetic coated surfaces should be tested.



STORAGE

Store product in the unopened container in a cool dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: Up to 28°C. Storage above 35°C can adversely affect the ability to handle and dispense the material.

Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Henkel Representative.

Product Specifications

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Approval and Certificate

Please contact Henkel representative for related approval or certificate of this product.

Data Ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23°C / 50% RH = 23±2°C / 50±5% RH

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb/F
N/mm x 5.71 = lb/in
psi x 145 = N/mm²
MPa = N/mm²
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Disclaimer

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation, or Henkel Canada Corporation, the following disclaimer is applicable:

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 1