



## Direct Thermal Material, Permanent Adhesive

AM Labels sources its label materials from reputable manufacturers in the UK and Europe to convert into labels at its manufacturing base in Kettering. Below is the specification from the material manufacturer.

### HERMAtherm K (917)

White thermal paper without protective surface coating, FSC®-Mix Credit (economy quality)

#### Technical data

|                            |                             |           |
|----------------------------|-----------------------------|-----------|
| <b>Grammage</b>            | approx. 70 g/m <sup>2</sup> | ISO 536   |
| <b>Caliper</b>             | approx. 76 µm               | ISO 534   |
| <b>Tensile strength MD</b> | approx. 70 N/15 mm          | DIN 53112 |
| <b>Tensile strength CD</b> | approx. 38 N/15 mm          | DIN 53112 |
| <b>Stiffness MD</b>        | approx. 220 mN              | DIN 53121 |
| <b>Stiffness CD</b>        | approx. 110 mN              | DIN 53121 |
| <b>Opacity</b>             | approx. 90 %                | ISO 2471  |
| <b>Imaging colour</b>      | black                       |           |

#### Product information

Label material (paper) - Issue 05.2015

#### Application and use

The surface of HERMAtherm K offers a good quality of imprint provided that solvent-free inks and varnishes are applied (ink recommendation list available). The inks should be suitable for printing thermal papers, consulting of ink supplier is recommended.

Basically, suitability tests should be performed under customer-specific conditions as unpredictable interactions with the ink may occur due to the lack of a protective coating. Web temperature during curing should not exceed 50 °C in order to prevent premature imaging or discolouration.

Printing speeds of up to 250 mm/s are possible in thermal direct printing.

HERMAtherm K is well suited as weight label material on food packaging and presents excellent grades with EAN and other barcodes. As economy thermal papers are not equipped with a protective surface coat, they should not be exposed

to water or greasy substances. The image may fade over a period of time if applied to surfaces containing plasticisers (e.g. flexible polyvinyl chloride).

The pulp for this paper comes from FSC certified forest management. This guarantees improvements in sustainable forest management regarding ecologic, social and economic standards.

The shelf life with the adhesive 62Dps is restricted to two years and with the adhesive 62Gpt to one year after manufacturing.

## Regulations concerning contact with food

The thermal paper grade HERMatherm K (917) according to the sample material is physiologically and toxicologically safe and may therefore be used in printers and scales for the marking of goods. However, they may only stand in direct contact with those foodstuffs which are washed and/or peeled before consumption (ISEGA Research and Development Institute, Aschaffenburg).

## Adhesive 62D

Permanent, acrylic based adhesive

### Technical data

|  |  |
|--|--|
| <b>Tack</b>                            | high   |
| <b>Peel adhesion</b>                   | very high  |
| <b>Shear</b>                           | high   |
| <b>Minimum application temperature</b> | 0 °C   |
| <b>Service temperature</b>             | -30 °C to +80 °C (up to 200 °C for short periods - hot fusing) |

### Product information

Adhesive - Issue 06.2017

## Application and use

Adhesive 62D is a universally applicable permanent adhesive. Its wide range of applications include price marking, computer labels and high-quality industrial labels. It is suited for labelling rough but not extremely curved surfaces and is highly resistant to light, heat and ageing.

## **Processing**

Excellent die-cutting characteristics on all customary machines.

## **Storage conditions and shelf life**

Storing at a temperature of  $20 \pm 5$  °C, a relative humidity of  $45 \pm 5$  % and a dark storage is recommended. Moisture, heat and direct sunlight have to be avoided. The shelf life is up to 4 years from date of production (belongs to face material).

## **Regulations concerning contact with food**

All ingredients of adhesive 62D comply with recommendations BfR XIV or FDA 21 CFR 175.105 (Adhesives).

The adhesive 62D according to the sample material submitted may be safely used for the reverse coating of labels. The adhesive layers of these may stand in direct contact with dry, moist and such fatty foods, for which a correction factor of at least 4 according to Annex III, Table 2 of the Regulation (EU) No. 10/2011 applies.

Furthermore the self-adhesive labels with the adhesive 62D can be used for labelling of blood bags. (Certificate valid till 11 April 2019)

## **Disclaimer**

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