

## Product Data Sheet

Langenthaler Str. 4  
69434 Hirschhorn/Neckar  
Germany  
Tel. +49 (0) 6272-689-0  
Fax +49 (0) 6272-6893-0

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## *dekopin* Magnetic Panels

### Product Description

The **dekopin** product group comprises **decorative, magnetic high-pressure laminates (HPL according to DIN EN 438/1 – EN 438/9)** in **plain colours** and/or with **fantasy decors** as well as with **illustrations of natural materials** (such as wood grain or stone look) and **metal surfaces** (such as aluminium, stainless steel and copper). Thanks to the metal core layer processed by DEKODUR, **dekopin** panels provide a strong magnetic force.

As specified in this standard, core layers impregnated with phenolic and/or aminoplastic resins and one or several surface layers coated with aminoplastic resins – mainly with melamine resin – are pressed to become decorative high-pressure laminate including a metal core layer.

When **dekopin** panels are combined with the **dekolor** product group, the surface layer consists of a plain-coloured paper melamine film. As is the case with the **dekolor** series, these plain-coloured papers are mass-coloured in a homogenous way. The producible colour scale comprises shades from white to coloured to black. These paper qualities guarantee colour consistency. The used mass-coloured decorative papers are free of heavy metals and feature good light stability.

When combined with the **dekonova** product group, the surface layer consists of a printed paper melamine film. The printed papers are preferably produced with roto-gravure printing and guarantee colour consistency. These printed decors are free of heavy metals and feature good light stability. **dekopin** magnetic panels may also be combined with **dekopix (digital printing)**, where we are setting new standards when it comes to digital printing on HPL. There are no limits as to creativity and customised designs. Thus, it is possible to individually design and implement single prints or small-batch series.

The panels may moreover be combined with **dekorial** (metals) laminate. In this case, the surface layer consists, for example, of an aluminium, stainless steel or copper film. Apart from that, the panels can be delivered with abrasion-resistant finishes (A 341, A 350 and A 356).

## Warpage

By reference to DIN EN14322-2004/6, composite elements can only be guaranteed against warpage when the front and back elements are covered with the same material (identical in strength, surface and structure).

## Form of Delivery and Quality

**All *dekopin* panels are manufactured in dimensions of either 2440mm x 1220mm or 3050mm x 1220 mm and delivered in protective film.**

According to DIN EN 438/9, the tolerances for the length and width dimensions must comply with the following limit deviations:

- 0 mm and + 10 mm

The rated panel thickness is 0.90 mm (weight: 1.7 kg/m<sup>2</sup>).

### Tolerances

0.9 mm

± 0.10 mm

Upon request, it is possible to clarify whether ***dekopin*** panels may be manufactured in greater thicknesses.

As regards the material's reaction to fire, the ***dekopin*** series' standard quality has a B2 Fire Rating in accordance with DIN 4102. If you wish to clarify the availability of ***dekopin*** panels classified as "hardly inflammable", please contact us directly.

## Fields of Application and Processing Instructions

The processing of ***dekopin*** panels is influenced and/or determined by many material and processing parameters (including material thickness, decor, print and temperature). The specific production parameters must be matched with the material properties as well as with the facilities and the used glue.

A range of 50°C can be considered a general specification regarding the processing temperature of ***dekopin*** HPL. The compressed material's exposure time depends on the used bonding system.

***dekopin magnetic panels* may be sawn, milled and drilled with carbide-tipped tools. Many carbide-tipped circular saw blades are suitable for use, provided that the number of teeth is correspondingly high and that a trapezoidal/flat/trapezoidal tooth configuration (Leuco panel sizing saw blade HW "TR-F" with cutting material: special HW variant -> HL Steel 17) is used. When cutting the laminates, ensure that the panels are positioned flat on the supporting surface. If required, use an additional support to prevent tear-out during the cutting procedures.**

The metal core layer may generate flying sparks during processing, which is why the necessary precautionary measures are to be taken.

**Cleaning of *dekopin* Magnetic Panels**

**Before first use, after removing the protective film, basic cleaning is mandatory in order to remove any adhesive residues left by the protective film!** Common glass cleaner is suitable for use. Wipe away with a soft, coarse-fibre microfibre cloth (do not use re-greasing cleaners such as washing up liquid or soapy water). Once wiped dry, the different *dekopin* surfaces can be described as follows:

Structure	Board marker	Liquid chalk	School chalk
HGL	X <sub>2</sub>	X <sub>1</sub>	---
MAT/MPM	---	X <sub>1</sub>	X <sub>2</sub>
AGT	X <sub>2</sub>	X <sub>1</sub>	X <sub>2</sub>

X<sub>1</sub> = wet cleaning with glass cleaner  
 X<sub>2</sub> = dry cleaning with microfibre cloth or magic eraser/dirt eraser sponge

*dekopin* surfaces in matt finish (AGT) may be written on with chalk and whiteboard markers. Apart from that, they are also suitable as a projection surface for projectors. When writing on the panels, we recommend using Edding 360 or 363, Staedler White Board Marker Lomocolor 351/3, Super Chalks liquid chalk from PK or ILLUMI-GRAPH liquid chalk from ZIG. Other whiteboard markers or liquid chalk with higher or coarser chalk content may cause irreversible surface damages.

In light of past experience, the cleaning results are significantly influenced by the pens' quality, age, period of use and storage. Only when the pens are stored in a horizontal position can the necessary mixing ratio of the whiteboard marker ink (3 components) be guaranteed. Hence, it is imperative to observe the manufacturers' storage instructions.

**Remark and Cleaning Instructions:**

Since matt HPL surface finishes have a higher porosity than high-gloss versions, we recommend using the AGT finish for *dekopin* magnetic panels with matt finish, especially when using whiteboard markers. This surface finish can be wiped clean with a dry cloth without leaving any residues. When using liquid chalk, wet cleaning is mandatory. We recommend selecting the MAT surface finish when using liquid chalk for writing on the panels. However, since we do not have any influence on the quality of the used pens, we cannot guarantee residue-free cleaning of *dekopin* panels. We recommend testing different pens before use and/or subjecting the panels to basic cleaning from time to time. Basic cleaning of *dekopin* panels has proven to be most effective when using common glass cleaner or Hraniclean 01 cleaner from Hranipex in connection with Sito Power Clean dirt removers or Mr. Clean Magic Erasers.

## Storage

**dekopin** laminates are to be stored in a closed room at temperatures between 18°C and 25°C and at 50-60% relative humidity. The laminates are to be stored horizontally and completely supported, leaving 200 mm space between the floor and the supports. They should be weighed down with a cover plate and must neither be exposed to direct sun radiation nor stored in a warm air stream.

It is imperative to store **dekopin** panels flat. They must be carried by two persons in order to avoid the formation of cracks and kinks on the surface. Improper bending of the panels may result in irreparable damages (kinks) to the metal core layer.

The laminate stacks...:

- ... are to be protected from moisture and condensation water;
- ... must not be exposed to direct sun radiation;
- ... must not be stored in a warm air stream and
- ... must be kept away from direct heat sources such as light bulbs or other heat generators.

The surface temperature must not exceed 70°C.

Should it be impossible to store the laminates in a horizontal position, we recommend positioning them completely supported at an angle of 80° and securing them with a bottom counter-support.

## Disposal

**dekopin** waste can be **burned** in officially authorised industrial incineration plants.

**dekopin** waste can be **deposited** on landfills in compliance with the local waste regulations.

According to the German TA – technical instructions on waste as of March 28, 1991, category I, no. 571 – HPL waste is classified as “other hardened plastic waste”. Category I means that a material is similar to household waste.

## How to Use dekopin Magnetic Panels

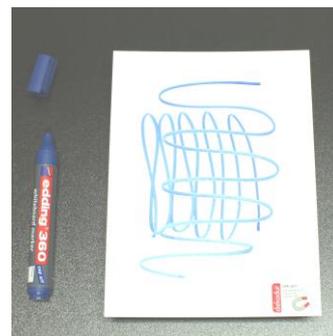
Bevor Sie **dekopin** Magnetplatten einsetzen, sollte die Oberfläche nach dem Abziehen der Schutzfolie mit einem handelsüblichen Glasreiniger grundgereinigt werden. Zum Abtragen des Reinigers empfehlen wir ein Baumwoll- oder Mikrofaser Tuch. Bitte verwenden Sie keine scheuernden Reinigungsmittel, diese können zu irreversiblen Schäden an der Oberfläche führen.

Before using **dekopin** magnetic panels, the surface should be thoroughly cleaned with a commercially available glass cleaner after removing the protective film. To remove the detergent, we recommend using a cotton or microfibre cloth. Please do not use abrasive cleaners as they may cause irreversible damage to the surface.



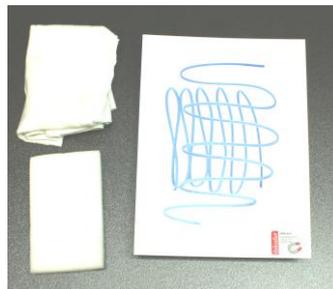
Nach der Grundreinigung können nun die **dekopin** Magnetplatten in Gebrauch genommen werden. Bitte beachten Sie unsere Empfehlungen bei der Verwendung von Whiteboard Markern und Flüssigkreide.

**dekopin** magnetic panels can be used after basic cleaning. Please follow our recommendations before using whiteboard markers and liquid chalk.



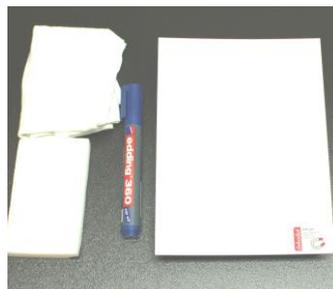
**dekopin** Magnetplatten mit der Oberfläche AGT sind trocken abwischbar. Das beste Ergebnis wird erzielt, wenn die Beschriftungsfarbe vollständig getrocknet ist. Bitte beachten Sie unsere Empfehlungen zur Reinigung von dekopin Magnethaftplatten.

**dekopin** magnetic panels with AGT surface finish are dry-wipeable. Best results can be achieved when the colour is completely dry. Please follow our recommendations for the cleaning of **dekopin** magnetic panels.



Bitte beachten Sie, dass die Farben der Stifte zur Beschriftung von Magnethaftplatten Pigmente enthalten, die sich bei intensiver Nutzung auf der Oberfläche ablagern können. Deshalb sollte von Zeit zu Zeit, je nach Nutzungsintensität die **dekopin** Magnetplatte mit einem Reinigungsmittel gereinigt werden (siehe Reinigung von **dekopin** Magnetplatten)

Please note that the colours of the pens used for writing on the magnetic panels contain pigments that may be deposited on the surface during intensive use. Therefore, depending on the intensity of use, **dekopin** magnetic panels should be cleaned with a detergent every once in a while (see cleaning of **dekopin** magnetic panels).



Wenn Sie Fragen zur Verwendung von dekodur **dekopin** Magnetplatten haben, steht Ihnen unser Verkaufsteam und unsere Anwendungstechnik gerne zur Verfügung.

If you have any questions concerning the use of dekodur **dekopin** magnetic panels, please do not hesitate to contact us.