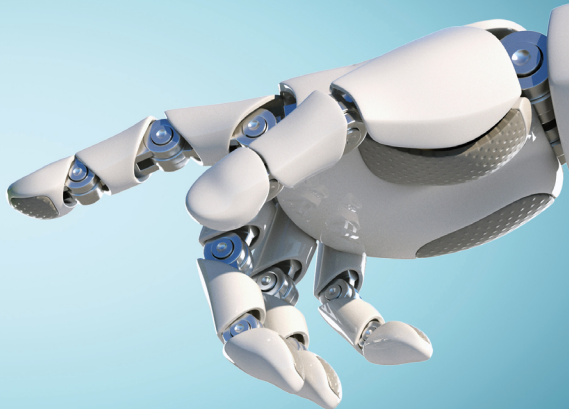


Sustainable hot-melt adhesives

Sustainable work with hot-melt adhesives
– for the love of nature



Sustainable hot-melt adhesives



The sustainability trend on the packaging market is especially evident in the growing interest in natural, resource-saving materials which use biologically renewable raw materials that help reduce the CO₂ – balance. In addition to the well-known low-temperature hot-melt adhesives, the product range has been expanded to include bio- based hot-melt adhesives.

The new **nature** adhesive series is DIN-certified and tested by external laboratories. The high proportion of renewable raw materials (up to 50%) makes these adhesives particularly environmentally friendly.

Advantages of nature hot-melt adhesive

- ✓ DIN ISO 16620-2:2019 certified
- ✓ Bio-based 20 – 50 %
- ✓ Very high colour and viscosity stability in the melt leads to an increase in machine efficiency.
- ✓ User-friendly processing due to odourlessness

Our sustainable **nature** hot-melt adhesives can be processed with the tried and tested application technology. Many of the BÜHNEN devices have the option of setting the processing temperature with an accuracy of one degree.

Low-Temperature hot-melt adhesives

These adhesives can be applied at a temperature of around 120 °C to 140 °C, whereas conventional hotmelt adhesives require 160 °C to 175 °C. Adhesives with lower application temperatures

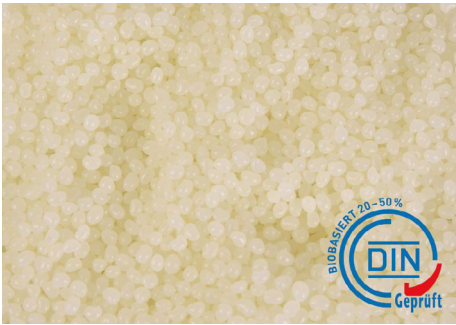
also reduce the risk of break through on thinner substrates. The low-temperature hot-melt adhesives are particularly suitable for the packaging of temperature-sensitive goods, e.g. chocolate.

When less energy is required to heat pipes and tanks, CO₂ emissions decrease and our customers come one step closer to their sustainability goals.

Advantages of low-temperature adhesives

- ✓ Lower risk of burns during processing
- ✓ Use on temperature-sensitive materials / surfaces
- ✓ Packaging of temperature-sensitive goods
- ✓ Energy-saving
- ✓ Reduction of CO₂ emissions

avenia B3771 nature



Benefits and Features

White **bio-based hot-melt adhesive** for industrial applications in the packaging industry, e.g. coated cardboard and fast carton erectors.

- ✓ Proportion of biogenic carbon: 41 %
- ✓ Fast absorption of high restoring forces
- ✓ Good adhesive spectrum
- ✓ Excellent oxidation stability

Specifications

Adhesive basis Polyolefins
Processing temperature 140 - 170 °C
Sprayable No
Delivery Forms Granulate

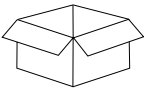
Description

Low-odour **bio-based avenia** hot-melt adhesive with very good oxidation stability in the melt. Particularly suitable for bonds in the **packaging industry** on high-speed machines where high restoring forces are safely absorbed.

This bio-hot melt is well suited for paper, cardboard and painted cardboard packaging; coated surfaces must be checked individually. The **avenia B43771 nature** has a biogenic proportion of 41 %. The calculated ignition loss (organic proportion): 100 %
The raw materials used comply with the **FDA guideline** 175.105 for the outer packaging of food.

Note: Slight colour variations may occur in adhesives, depending on the raw materials and processes used.

Application Areas



Packaging industry



BÜHNEN

ADHESIVE SYSTEMS

The one-stop solution for hotmelt adhesive bonding

- ✓ Only one contact partner for all adhesive enquiries
- ✓ High level of advisory skills to ensure reliable bonding processes
- ✓ Wide offer of hot melt adhesives for almost any application
- ✓ Extensive range of matching application equipment and accessories
- ✓ Close to customers all over Europe
- ✓ Extensive customer services
- ✓ Rapid delivery, even of small quantities

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