

The use of 1kg of adhesive is said to reduce the weight of a car by 25kg. The so far familiar disadvantages of adhesive technology in automotive engineering – long curing times and inadequate bonding – are now a thing of the past, says Evonik.

As fast and uncomplicated things can be glued, so the resulting bond can be released. When MagSilica nanocomposites are integrated into the adhesive, it enables technicians to release or destroy a bond through another selective heating process.

New adhesives

Be it EVA, low-temperature or PUR hot melts, German company Planatol Adhesive, which is constantly looking for ways to develop quality adhesives, recognises two significant trends.

One is the trend towards PUR hot melts. The other is the growth of low budget low temperature hot melts. On the one hand manufacturers lean to low-temperature hot melts with hot melt characteristics while, on the

other hand, there is a desire for higher temperature resistance, says the company.

Planatol has consequently launched its EVA VP 2941 HM and VP2941 HM Plus hot melts. Both adhesives feature a low processing temperature ranging from 130-160°C. These temperatures are both applicable in the 'one shot' and 'two shot' method, and the product shows a predominantly void-free structure while maintaining a good flexibility, says the company. The low processing temperatures are also said to be advantageous for the pre-melter and the glue application aggregate.

Planatol has expanded its portfolio to embrace products that are said to cover the production of brochures, paperbacks and magazines for mass and focal circulations with PUR hot melts.

A popular example is the production of photo books. Because digitally printed papers with high grammages are used in this process,

the adhesive bond is difficult or even impossible to realise with conventional dispersion glues or hot melts and needs the use of new adhesives with a broad bonding spectrum. Planatol PUR adhesives can be applied with nozzles or rollers.

Less wear and tear

Herma has developed a new adhesive material called HERMAperfectCut that is said to combine the good adhesive characteristics of the 62X with superior characteristics for further processing.



New Herma adhesives are made with the help of curtain coating technology

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The new material is thought to reduce tool wear during label production, to increase security during the die cutting process and also to enable a better machine performance. Herma say that this has been made possible with modern curtain coating technology, which for the first time uses the dispersion pressure sensitive adhesive 62X in combination with an especially, newly developed insulation layer.

In a multi-layer process, an adhesive layer is created, which 'breaks' faster so that the die cutting process is alleviated. This enables the die cutting pressure to be reduced by 15-20%, says Herma. Additionally, the inner coherence of the adhesive layer has been significantly increased so that less adhesive can leak, making it possible to convert HERMAperfectCut safely.

Since the advantages of the new adhesive material can currently best be seen when used with film, HERMAperfectCut is initially available with three adhesion composites for

use with PE and PP, namely as white, glossy standard PE film and both as white, glossy PE and PP film with a special surface treatment for good printability.

High-tech pilot coater

Collano Adhesives, Swiss producer of specialty applications in construction, composites, label, tape, packaging and other areas, covers a range of water-based adhesive and coating systems, hot melt adhesives, reactive adhesive systems as well as adhesive films and coatings.

The company has installed a new in-house high-tech pilot coater from Nordson that is said to offer a distinctive test platform for customers. It is equipped with a slot die, a curtain coater and a spray head and enables users to conduct customised application tests and produce high-quality samples for feasibility analyses and commercial trials.

It is also suitable for producing small batches of samples for field testing, says Collano. The pilot



The new Collano pilot coater

coater is suitable for the coating of conventional and UV-curable hot melts and corona treatment to improve adhesion on difficult substrates such as polyolefins.

The machine is also capable of curtain coating that is streak-free, which is said to be ideal for clear-labels even with coating weights of 5gsm and on temperature sensitive substrates.

Typical applications for the pilot coater are both woven and non-woven labels, tapes, packaging and textiles, says Collano. The machine is said to offer considerable flexibility due to fast substrate, adhesive and coating setting changes. ■

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