

Plastic-free barrier coating for food cardboard

Plastikfreies Barrierecoating für Lebensmittelkarton



Die neue kompostierbare Beschichtung für Lebensmittelkarton wurde mit dem Green Product Award 2022 ausgezeichnet. (Bild: Nanopool)

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NP SiOPack ist ein neues Beschichtungsmaterial, das Verpackungen aus Papier, Kartonage, Faserguss oder unterschiedlichsten Naturfasern ohne PE-Folierung Lebensmittelsicherheit verleiht. Dafür wurde die umweltfreundliche Barrierebeschichtung jetzt mit dem Green Product Award in der Jurykategorie „Best of New Materials“ ausgezeichnet.

Das umweltfreundliche Barrierecoating der Firma Nanopool GmbH ist **ultradünn, unsichtbar und dabei vollständig recycelbar** und unbedenklich. Bislang erreichten naturfaserbasierte Verpackungslösungen bei anspruchsvollen Anwendungen nur mithilfe von Beschichtungsmaterialien wie z. B. Polyethylen (PE) oder Bio-PE eine ausreichende Verpackungs- und Lebensmittelsicherheit. Das Coating mit der Lösung NP SiOPack erreicht **im Vergleich zu einer Beschichtung mit PE**

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The new compostable coating for food cardboard has been honoured with the Green Product Award 2022.

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NP SiOPack is a new coating material that provides food safety to packaging made of paper, cardboard, moulded fibre or a wide variety of natural fibres without PE film. For this, the environmentally friendly barrier coating has now been awarded the Green Product Award in the jury category „Best of New Materials“.

The environmentally friendly barrier coating from Nanopool GmbH is ultra-thin, invisible, fully recyclable and inoffensive. Until now, natural fibre-based packaging solutions for demanding applications only achieved sufficient packaging and food safety with the help of coating materials such as polyethylene (PE) or bio-PE. Compared to a coating with PE on cardboard packaging, the coating with the NP SiOPack solution achieves the same values in terms of water stability and food safety, but as a natural-based product it can be completely returned to the natural cycle.

Food safety without plastic

For the technical implementation, Nanopool found support from Van Genechten Packaging (VGP). The European manufacturer of cardboard packaging with headquarters in Belgium developed the machine implementation of coating cardboard packaging for industrial production. In the practical application at VGP, the material is coated with NP SiOPack and can then be further processed for

any packaging application without any problems.

The relevance of this environmentally friendly coating for food packaging was also recognised by this year's Green Product Awards jury, who described NP SiOPack as „an excellent, more sustainable technology for paper and disposable products“ that also makes it easy for consumers to intuitively recognise that packaging with this natural coating is recyclable and compostable.

The ultra-thin barrier is neither visible nor tangible to the bare senses, which is why packaging made of paper, cardboard or other natural fibres treated with NP SiOPack, unlike PE-coated products, is visually and haptically indistinguishable from the untreated raw material. The effect of the finishing, on the other hand, is recognisable: absorbent natural materials become reliably repellent to water, oil and grease, dirt and even germs. This creates safe packaging for dairy products, liquids, frozen products, soaps and detergents and much more, which can simply be disposed of with waste paper after use.

Since 2013, the international Green Product Award in cooperation with the IKEA Foundation has been honouring solutions that stand out in terms of designs, innovation and sustainability. In 2022, over 1.500 projects from 56 countries were submitted in 13 categories. In the context of the newly founded Green Future Club, this year will also see an expanded networking of Award sponsors.