

## Arrived at the new location

### Confirmed quality — future is secured

CCL Design Stuttgart GmbH is now well established at its new site in Nufringen. Our company is now optimally positioned for the future and has been successfully audited by numerous customers.

In the first half of 2019, more than 10 on-site audits convinced our customers that the improved site will also bring even higher quality in many aspects of process and production. In addition to customer audits, DEKRA Certification GmbH also awarded us with quality and environmental certification.

Our employees quickly settled into the new building and are pleased with the generous workspaces, the short path-



ways and direct internal communication. The building complex also offers enough room for expansion to ensure future enlargement of our capacity.

The strategic location in Nufringen — right on the B 14 highway and very near freeway junction A 81 Stuttgart-Singen — ensures customers and suppliers fast, easy access.

The commercial area is also well connected to local public transport and stands out for its mix of internationally renowned, high-performing companies in various industries.

Thus, at its new site, CCL invested in a modern building with more effective infrastructure, in new facilities with the latest production technology, and in a motivational work atmosphere for its employees. This means that all the conditions for a successful future have been created to overcome challenges and exploit new opportunities.

With these optimal conditions, the CCL team in Nufringen will continue to serve its customers quickly and reliably with the new motto "From Now On".



Uwe Dessecker

Dear customers and partners,

2019 was another very good year for our company. One year after the relocation, all processes and procedures have been optimized, and we're excellently positioned for the future. Through our high-level merger and intensive cooperation with our electronics companies, we can significantly improve our product portfolio and expertise.

Further acquisitions within the CCL group of companies, such as Olympic Holding, have significantly enhanced

our product portfolio in the past year. This offers us the opportunity to present our customers with even more new self-adhesive functional die-cut parts. In this regard, as always, we rely on our qualified, motivated staff, who are the people behind our company's success throughout its long history.

We are looking forward to a continued successful and trusting cooperation in many different projects.

# RoHS

New RoHS III in force since July 22, 2019



## New prohibitions on the use of substances

The RoHS guidelines limit use of defined hazardous materials with electrical devices and electronic components.

On July 22, 2019, the third revision of EU guideline 2015/863 of the European Parliament came into force. This guideline, **RoHS III** for short (in English, **R**estriction of **H**azardous **S**ubstances), extends the definition of certain hazardous substances.

These four substances appear in the RoHS guideline for the first time:

- **butyl benzyl phthalate (BBP)**
- **di (2-ethylhexyl) phthalate (DEHP)**
- **dibutyl phthalate (DBP)**
- **diisobutylphthalate (DIBP)**

All of the materials we use meet the standards of RoHS guideline 2015/863/EU.

## A new member of the family

### In-house adhesive systems

Since November 2018, Olympic Holding has been a new member of the CCL Group. Headquartered in Venray, Netherlands, it is a young technology company with a patented process for making high-strength acrylic foam adhesive tapes. These are used without solvents in the automotive, electronics and construction industries.



Geoffrey T. Martin, President and CEO of CCL Industries is impressed: "We are pleased to broaden our successful existing activities with this important expansion of our high-performance adhesive system capacities."

Olympic produces various adhesive tapes, all of them solvent-free. In addition to adhesive tapes, CCL can also

produce die-cutting parts — just ask our sales staff.

Series 3000 is the basis for the Olympic adhesive systems. This 3000 series was developed to meet the highest industry standards. It offers a very durable, long-lasting bond for indoor and outdoor use because of its unique viscoelastic characteristic, and also has outstanding temperature, solvent, softener and moisture resistance.

Thanks to its innovative, multi-layer process technology, the Olympic 5000 LSE series displays amazing adhesive properties and even bonds firmly to difficult surfaces.

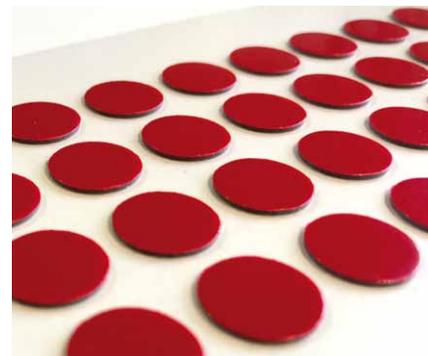
The flagship products of the 7000 specialty series stand out for their very special properties. They have unique heat-conductive and flame-retardant components and specific solutions for mobile electronics.



Adhesive tapes



Heat-conductive die-cutting part



Self-adhesive die-cutting parts

Materials list			
	3000 Series	5000 Series	7000 Series
Description	acrylic adhesive system	modified acrylic adhesive	special acrylic adhesive
Adhesive strength	0.25 to 2.30 mm	0.5 to 1.50 mm	0.25 to 2.00 mm
Color	clear / white / gray / black	white / gray	white / gray / black
Core properties	viscoelastic bond for metals	viscoelastic bond for plastics	heat conductive / flame-retardant adhesive tapes
Series	3100 / 3200 / 3300	5200	7100-7500 / 7600 / 7700
Industries	automotive / home appliances / construction	automotive and electronics industry / construction	automotive and electronics industry

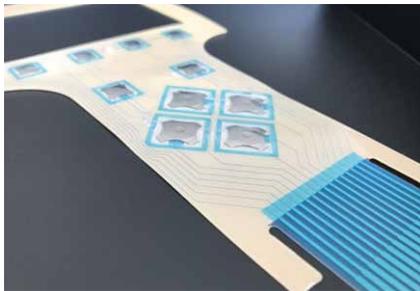
You can find more details on each adhesive system at <https://www.olympicbonding.com>

## Printed electronics

### Looking to the future

At the Nufringen site, CCL Design Stuttgart GmbH is transforming ever further into a technology center that develops identification products as functional parts — electronic labels.

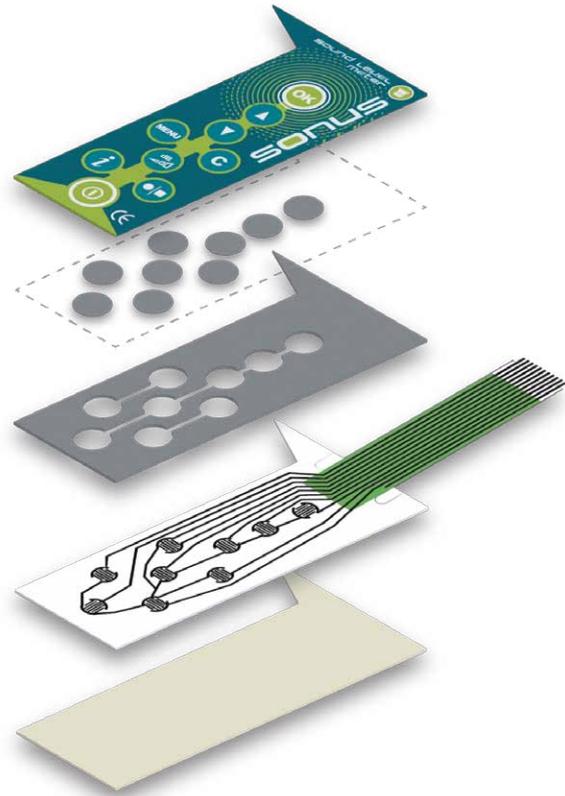
These labels will be produced with the help of other CCL facilities. In the future, it won't just be identification that is important to e-mobility, but to a certain extent, the labels will become digital and functional — even taking



Printed electronics

over thermal management. Among other things, they divert high temperatures that occur during operation. For this we can use Series 7000 products from Olympic.

Additional innovations include touch panels, which make switches superfluous. The individual coatings necessary for the components are produced using well-known printing processes, such as serigraphy, flexographic printing and intaglio, and can be insulating, electrically conductive or semi-conductive. With this expertise, our company is expanding and positioning itself for the future.



## The laminator for high-resistance labels

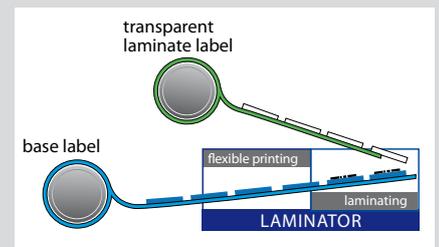
### Print, dispense and laminate — all in one process



With our laminator, you can print variable labels and then protect the printed base label with a laminate film to achieve optimal protection in one step.

For several years, we have been producing and selling our laminator in two different versions, PRO and ECO. Previously, the laminator was created with

SATO or ZEBRA printing systems. With further development, we now have the option to equip this system with CAB printing systems. With the use of the new printing system, the system has been redesigned for simpler operation. For example, in the ECO version, the



dispensing and application unit is built onto one rail, allowing the system to be converted to new formats in just a few steps. The setup process is reduced, and series production can start sooner. Another innovation is the system's new LED error code display, making troubleshooting much easier.

Due to the organizational change, we can now also offer printing services in small runs. You provide the necessary printing data, and we deliver the individually printed and laminated labels to you.

## More than just color

### Attract attention with an additional security function

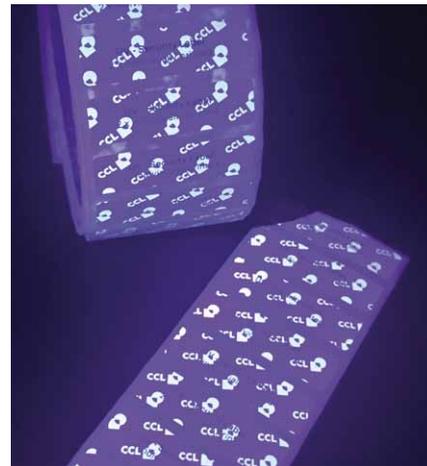
The counterfeits business has grown enormously over the past five years. Now products from every industry are faked. Having started with up-scale clothing, purses, eyeglasses and watches, and even valuable auto parts, counterfeiters now don't even shy away from faking medications.

A simple yet extremely effective option for protecting trademarks is the use of UV fluorescent pigments, whose refractive properties allow powerful, cost-effective product marking. Individual production techniques allow creation of various elements that distinguish real products from knockoffs.

Recent development of thermal transfer ribbons with UV fluorescence offers the option for individual digital printing with a security function. At first, the



Label under daylight



Label under UV light

label looks ordinary, but under UV light the security stamp appears. Any kind of text, logo or numbering can be printed.

This gives you the security label you want. Nothing stops you from doing your own further printing. You can simply use thermal transfer printing to

custom make these labels with your data - just ask for your own personal sample!

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## Leave a trace behind

### Special UV fluorescent pigments leave a trail

Another innovation in protection from tampering and counterfeiting is label material with a footprint effect. The material looks ordinary at first sight, but special pigments are integrated into the adhesive. Once the material is glued onto certain surfaces, these UV pigments penetrate the surface over time. Under normal light conditions, the label

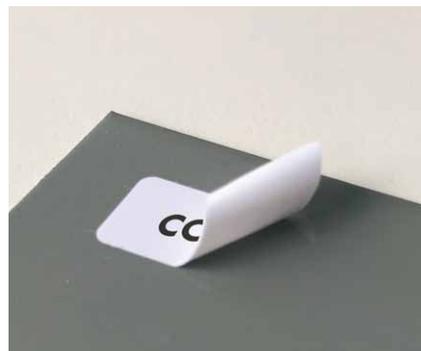
looks completely ordinary. However, if the label is removed, at first you don't see any difference from other ordinary labels. However, when UV light is applied, this label material shows where it used to be. Under the wavelength range of 365 to 395 nm, the removed label becomes visible from the surface. This migration function occurs only

with various plastics and lacquer surfaces. On purely metal surfaces, these UV particles don't migrate.

Ask our sales staff for sample material, so you can test this extraordinary function yourself.



Label stick on the surface



Removed label under daylight



Removed label under UV light