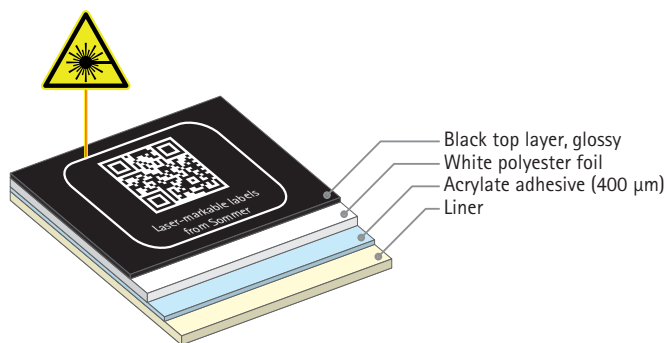


Laser-markable labels som8540

Permanent product identification meeting the highest standards

The laser-markable labels som8540 consist of a specially developed polyester film with a black, highly resistant surface layer and an extremely high-performance adhesive.

Our product has been developed specially for marking with all commonly available laser marking systems. The removal of the special black coating from the underlying white polyester film results in a highly accurate and high-contrast marking.



Please follow the processing instructions on page 3!



The main field of application are labels for demanding industrial environments with high requirements concerning wear resistance, adhesive strength and process reliability.

Due to the strong adhesive, the labels are pre-punched to a requested format.

The extremely resistant adhesive adheres excellently to substrates with high surface energy, such as steel, aluminium and glass. On metallic surfaces, the label withstands steam jets of up to 180 bar for several minutes, even on rough cast surfaces.

The material is approved by the Federal Motor Transport Authority (KBA datasheet for test requirements for nameplates, adhesive labels and printed markings).

Our Sommer service:

We carry out adhesive strength and wear resistance tests for you; also based on your individual requirements and on original materials.

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Advantages and performance features

- Extreme resistance to chemicals, solvents, cold/heat (-40 to 120 C°), weather, abrasion and aging
- Outstanding adhesion and shear strength (including steam jets of up to 180 bar)
- High adhesive strength even on rough and uneven surfaces
- Approved by the Federal Motor Transport Authority (KBA-certified)
- Maximum efficiency thanks to variable and perfectly matched "just-in-time" laser markings
- High flexibility thanks to easy software-based modification of label contents
- Precise and high-contrast marking result with optimal code readability
- Exceptional laser marking speed of up to 6,000 mm/s
- Use of pre-punched labels for defined label sizes saves time due to the omission of contour cutting
- Individual sizes possible

Product variants

- Customised watermark
- Special application-specific adhesives
- Substrates optimised for processing and automation

Technical data

Surface material	White polyester with black surface layer optimised for laser marking, 55 µm
Adhesive	Acrylate foam adhesive, 400 µm
Liner	Paper with special coating, 55 µm

Strategic partnership with CAB

Process-safe complete solution

- Perfect coordination of laser material and marking hardware for a holistic optimal solution
- Faster and more efficient solution finding for customer-specific requirements or unusual problems
- Decades of experience in product labelling and the high demands of the automotive engineering

Further information on the LM+ laser marker



Storage: If stored appropriately (room temperature 20 °C, humidity 50%), the product can be processed for a period of approx. 24 months without any substantial changes of the product characteristics.

The suitability information is based on our experience to date. The quality of our products is subject to strict controls and is reviewed continuously. Our application specialists are at your disposal for in-depth consultation regarding any specific application. A suitability test should be carried out in each individual case under the respective conditions of use and on original substrates. The values stated in the product information are average values. The information is not binding, does not constitute a guarantee and is not otherwise intended for technical specifications.



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Processing instructions

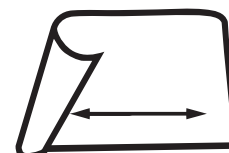
To achieve the best possible results when applying labels, please follow the steps below:

Avoid direct contact with the adhesive – skin oils, sweat, hand creams or dirt can render the label adhesive unusable. Pay attention to how you position the labels.

- 1. Preparing the surface:**
Ensure that the surface to be covered is clean and dry and that any dust, grease, silicone, dirt, moisture, condensation, etc. has been removed. Use a lint-free cloth. Pre-treat the surface using the activator SE384693 provided to ensure perfect adhesion. (SE384693 = TEROSON® SB 450)



- 2. Applying the labels:**
The room temperature should not be below 18 degrees Celsius to ensure smooth processing. Apply the labels using heavy pressure. Use a pressure roller with the intended pressure $>10\text{N}/\text{cm}^2$ and the optimum speed of $10\text{mm}/\text{sec}$. Pay particular attention to the corners. These peel off more easily if they are not pressed on firmly enough.



- 3. Adhesive setting time:**
It is imperative that the resting time of 72 hours is observed. Only then is the full adhesive strength achieved.

