



Faurecia Bonding processes for cockpit-integrated displays

Faurecia has made the introduction of interactive display solutions on board vehicles a strategic focus for development. The company called on Cetim to acquire the new knowledge required for the implementation of bonding processes.



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OUR CUSTOMER

Corporate name
Faurecia

Turnover
14.7 billion Euros in 2020

Workforce
114,000 employees on 266 industrial sites and 39 R&D centres in 35 countries.

Business activity
Automotive supplier that develops technologies for sustainable mobility and creates customized experiences for the cockpit of the future.

Faurecia is actively preparing the gradual transition to fully autonomous vehicles. Its aim is to design vehicle interiors that offer a safer, more intuitive and more pleasant mobility for users and whereby they can interact with all on-board services. This interaction is facilitated by the integration of interactive display solutions designed to enhance the user experience. *“Some displays will blend harmoniously into the entire length of the dashboard. For that purpose, we need to bond the various components while complying with aesthetic and reliability requirements. As bonding is a new process for us,*

we decided to seek out a partner with expertise in the entire process, from R&D through to mass production, to assist us in our technical choices,” explained Claire Peyrelongue from Faurecia.

Structuring and organising the decision-making process

Faurecia therefore relied on Cetim’s expertise to select the specific adhesives and application methodologies to bond the displays and their various components (touch film, protective glass, structural parts, etc.). In the case of some components, the assembly reliability must go in hand with optical performance that guarantees the ultimate quality of the image. What are the parameters that should be taken into account? How should

the adhesives and their application process be specified? To answer these questions, specimens were manufactured by Cetim and subjected to mechanical characterisation. Faurecia then assessed the optical performance of these specimens. Based on analysis of the test data and constructive discussions with Cetim’s expert, Faurecia was able to select the adhesives and application techniques suited to each situation. *“This allowed us to structure and organise our decision-making process in order to efficiently implement our new projects. We can now specify our adhesives and the application processes based on the expected properties of the end product”,* added Claire Peyrelongue.

Cetim’s asset



Cetim offers an overall approach for the expert design of multi-material assemblies, by supporting manufacturers in the optimal choice and proper sizing of the assembly technology. Tests carried out according to appropriate procedures and analysis of the measured values to provide recommendations that are suited to the application.