

Touch on Glass (ToG)

Robust Touch Screens



Touch Screens have to fulfill a variety of requirements: they must be Multi-Touch-compliant, robust, well readable and they have to work reliably in rough environments. Capacitive Touch Screens (PCap: Projected Capacitive Touch Screens) with highly transparent and scratch-resistant glass surfaces are the best solution for an increasing number of applications.

More and more customers are looking for a reliable package of approved touch sensors, electronic controllers and efficient software in order to combine it with a robust glass surface. EuropTec offers to combine customer's preferred touch sensor technology with individually designed glass surfaces (cover glass) which allows customized solutions.

Technical Data

The assembly of PCap Touch Sensors with UV-cured liquid adhesives, tear-resistant film or cold adhesives are feasible for individual applications. The decision about an appropriate bonding system depends on the individual customer requirements and the operating environment.

For all glass to glass assemblies RoHS-conform adhesives with the following properties are used:

- light transmission depending on touch sensor, adhesive and cover glass
- operating temperature $T = -20^{\circ}\text{C}$ bis $+70^{\circ}\text{C}$
- good UV-resistance
- relative permittivity (dielectric constant) $\epsilon_r = 6$

(for comparison: $\epsilon_{r\text{Glas}} = 5$ bis 10 , $\epsilon_{r\text{PMMA}} = 2,5 - 3,8$, the higher the relative permittivity, the lower the negative impact on the electric area of the PCap)

Lifetime and reliability of ToG assemblies depend on a variety of impacts. Above mentioned data are just references. Customers are invited and obliged to check and evaluate the individual application under realistic operating conditions.

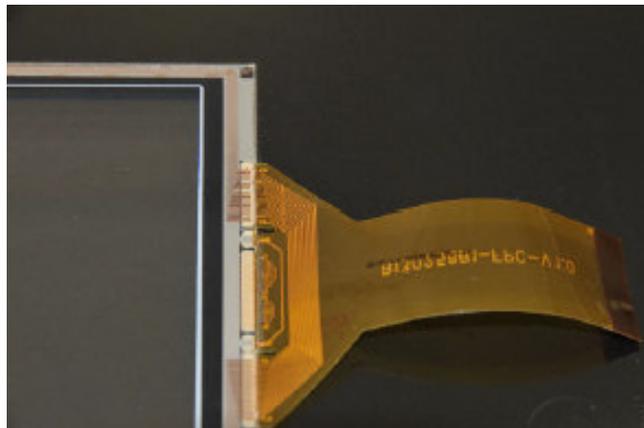
In order to achieve a high significance of test results, the use of original parts under realistic strains respectively the required operating conditions is recommended. Especially chemical resistances have to be checked by the user, if required by application.

Advantages

Combination of line production electronic with robust glass surfaces and customized design.

Typical Applications

The bonding systems used by EuropTec have been successfully implemented since many years in automotive industry as well as in mechanical engineering, plant construction and toolbuilding.



Do you have questions or do you need advice regarding the various application possibilities of technical glass?

Please do not hesitate to contact us!

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