

E-MASK[®] TP200 Surface Protection Film for Touch Panel Displays



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Summary

In the manufacturing process for resistive touch panels, a surface protection film with a polyolefin (PO) base is used to protect the surface of the hardcoat layer on the upper electrode (ITO film). As the polyolefin surface protection film melts during the heat treatment process it has to be applied twice, once before the heat treatment process and once after it (surface protection film cannot be used in the heat treatment process).

E-MASK[®] TP200 was developed on the understanding that, if it is possible to protect all processes by applying surface protection film only once, then touch panel production efficiency could be improved, the surface of the hardcoat layer could be protected from damage and dirt infiltration when changing surface protection film and during the heat treatment process, and touch panel yield could be increased.

E-MASK[®] TP200 protects the surface of the film by preventing chemical penetration during chemical processing, prevents warpage of the ITO film due to its outstanding dimensional stability, has a light release and prevents oligomer migration. Therefore, a single application of E-MASK[®] TP200 is capable of protecting the surface of the hardcoat layer throughout the entire manufacturing process.