

Lamination Accessories

Conformal Molding Sheet ACC-25

Product Description

ACC-25 is a clear plastic foil which is used to equalize minor differences in heights during lamination especially when producing flexible and rigid-flexible circuits.

ACC-25 was designed especially with regard to a well-defined flow at certain temperatures.

ACC-25 gets soft at approx. 100°C and conforms to the contours of the circuit but without getting soft enough to flow away.

ACC-25 prevents too high pressure at higher spots and too low and/or no pressure at all at lower spots during the lamination of rigid-flex circuits.

When laminating coverlay on a circuit ACC-25 forces the coverlay to conform to the contours of the circuits very tightly, permitting the production of delamination-proof circuits even with low adhesive coverlays.

When laminating thin heat sinks on circuits the pressure because can often be calculated based on the total panel area ACC-25 provides even pressure all over the entire surface. Otherwise it would be necessary to complicate calculate the area of the heat sinks in order to find the correct pressure for lamination.

Sometimes ACC-25 is also used to prevent adhesive flow with punched or drilled coverlays. As ACC-25 gets soft earlier than most of the common adhesives it is being pressed into the coverlay blanks preventing the flow of the adhesive into these blanks.

Processing

With standard lamination cycle, 45 - 60 min, at 160 to 175 °C, approx. 15 bar. Often there is one sheet of ACC-8 or ACC-3 used between the circuit and ACC-25 in order to prevent sticking of ACC-25 on the surface or ACC-25 getting into the holes. ACC-8 and ACC-3 also have an additional press pad effect.

It is possible and sometimes advisable to have several ACC-25 foils in order to have a better conformal molding effect when higher differences in thickness are encountered. ACC-25 is for single use.

Availability

ACC-25 is available from stock in thickness of 0.3 mm.

Roll sizes: 650 mm x 60 m
1300 mm x 30 m

Cutting and Punching

ACC-25 can be supplied in any size either with or without registration holes. Both services (cutting and punching) can be offered with competitive prices and short delivery times.

Recommendation

ACC-25 conformal molding sheets were designed for use in combination with Holders release films which provide best lamination results in this combination.

The above statements are based on our present knowledge. Our statements should not be interpreted as a guarantee of characteristics. The use of our products by our customers is subject to different conditions, therefore none of our customers are relieved of the responsibility of testing our products by themselves. A liability for consequential damage will not be accepted in any case. For damage resulting from the use of this information we can only be held responsible if there is evidence of malice or negligence on our part. This data-sheet replaces any previous data sheets.

General safety information

- Only use the product for applications described in the product data sheet
- The product is intended for industrial use only
- The product is not suitable for food industry
- The product must not be eaten
- In case of fire noxious fumes or smoke can be generated

Danger

Dust generation, do not inhale dust, comply with general dust limit value TRGS 553
Do not inhale fumes or smoke created during processing or by fire

Protection methods

Dust extraction or dust protection mask

Extinguishing agent

Foam, powder, CO₂

Environment

Comply with limit value for respirable dust
Dispose of waste safely