

# Flexible Films

There is a large variety of applications for flexible PVC films. The market is dominated by plasticized films, although more and more plasticizer-free flexible films are entering the market.

While in the past in many applications Sn, Pb and BaCd stabilizers were used, today BaZn- and CaZn stabilizers are mostly used. Also other regions in the world are now slowly following this development and are increasingly choosing these solutions. As in other application areas, a growing consumption of sustainable stabilizers can be noted, based on aspects of environment protection and sustainability.

There are comparable demands for flexible films as in other market segments, but with a special focus on emissions, fogging, odor, and the prevention of recipe components subject to labeling.

Moreover, the requirements of various regulations, such as Pharmacopoeia, food contact approval, indoor air impact regulations, and toy standard have to be observed.

Flexible PVC films are mostly produced by calendering, often in combination with subsequent lamination, but also processing methods like film blowing – or flat extrusion are used.



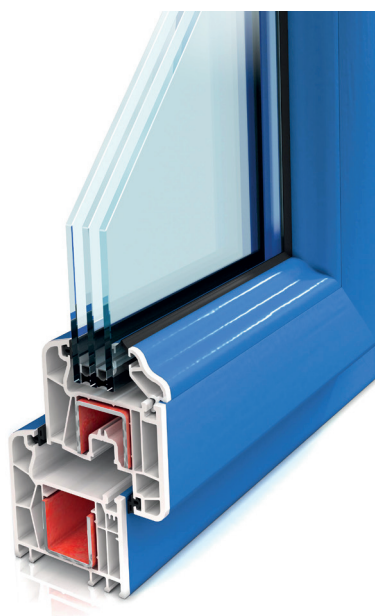


## Applications

|                                         |
|-----------------------------------------|
| Furniture films                         |
| Lamination films                        |
| Window wrapping films                   |
| Self adhesive films                     |
| Advertisement films                     |
| Adhesive tape films                     |
| Labels & sleeves                        |
| Stationary films                        |
| Stretch films                           |
| Shrink films                            |
| Cling films                             |
| Water proofing membranes                |
| Roofing films                           |
| Pond films                              |
| Pool liner films                        |
| Car wrapping films                      |
| Inflatable device films                 |
| Insulation films                        |
| Paper finishing films                   |
| Print films                             |
| Shrink ceiling films                    |
| Traffic sign films                      |
| Toy device films                        |
| Medical films / blood bags / urine bags |
| Table cloth films                       |

## Our Portfolio

|                                                     |
|-----------------------------------------------------|
| <b>Liquid &amp; Paste Products</b>                  |
| · BaZn stabilizers                                  |
| · CaZn stabilizers                                  |
| · Organophosphite boosters                          |
| · ESBO                                              |
| · Internal lubricants                               |
| · External lubricants                               |
| · Antistatic agents                                 |
| · Release agents                                    |
| <b>Solid Products (Powder, Granules, Pastilles)</b> |
| · CaZn stabilizers                                  |
| · Ca-based stabilizers                              |
| · Zn-based stabilizers                              |
| · Metal soap-free stabilizers                       |
| · Metal soaps                                       |
| · Internal lubricants                               |
| · External lubricants                               |
| · Antistatic agents                                 |
| · Antifogging agents                                |
| · Antiblocking agents                               |
| · Anti-plate out agents                             |
| · Anti-slip agents                                  |
| · Anti ageing agents                                |



## Advantages of Our Additives

- Excellent processing
- High heat stability
- Low plate-out properties
- Low odor
- Excellent printability
- Very good transparency



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