

NEW DEVELOPMENTS IN MULTILAYER BLOWN FILM TECHNOLOGY

We inform our customers that all AMUT DOLCI BIELLONI 5 and 7 layers Blown Film Lines are equipped only with “stackable” dies (the so-called pancake type dies).

The 3-layer co-extrusion technology is now commonly accepted by the market because it has been proven that, **better mechanical properties on the film are achieved by splitting the melt into 3 layers.**

On the conventional bottom fed-dies, even if the melt is split in several layers, during the extrusion process, the temperature in the die is uniform and, therefore, in order to avoid overheating, it is necessary to use resins that have a similar extrusion temperature or to blend different resins.

The stackable dies are based on the concept of having an independent die for each layer. The temperature of each die can be individually controlled and it is possible, therefore, to coextrude various grades of LDPE, Metallocene, LLDPE, PP and HD and achieve optimal mechanical properties of the films.

The stackable dies can also be implemented by adding layers. It is possible to invest, initially, in a 5-layer head and then add in future two or more dies connected to additional extruders, or to split the melt coming from one extruder in two different dies.

The 5 or 7 layers lines now available in AMUT DOLCI BIELLONI production program range from 1800 mm (70,8”) up to 3000 mm (118”) wide.