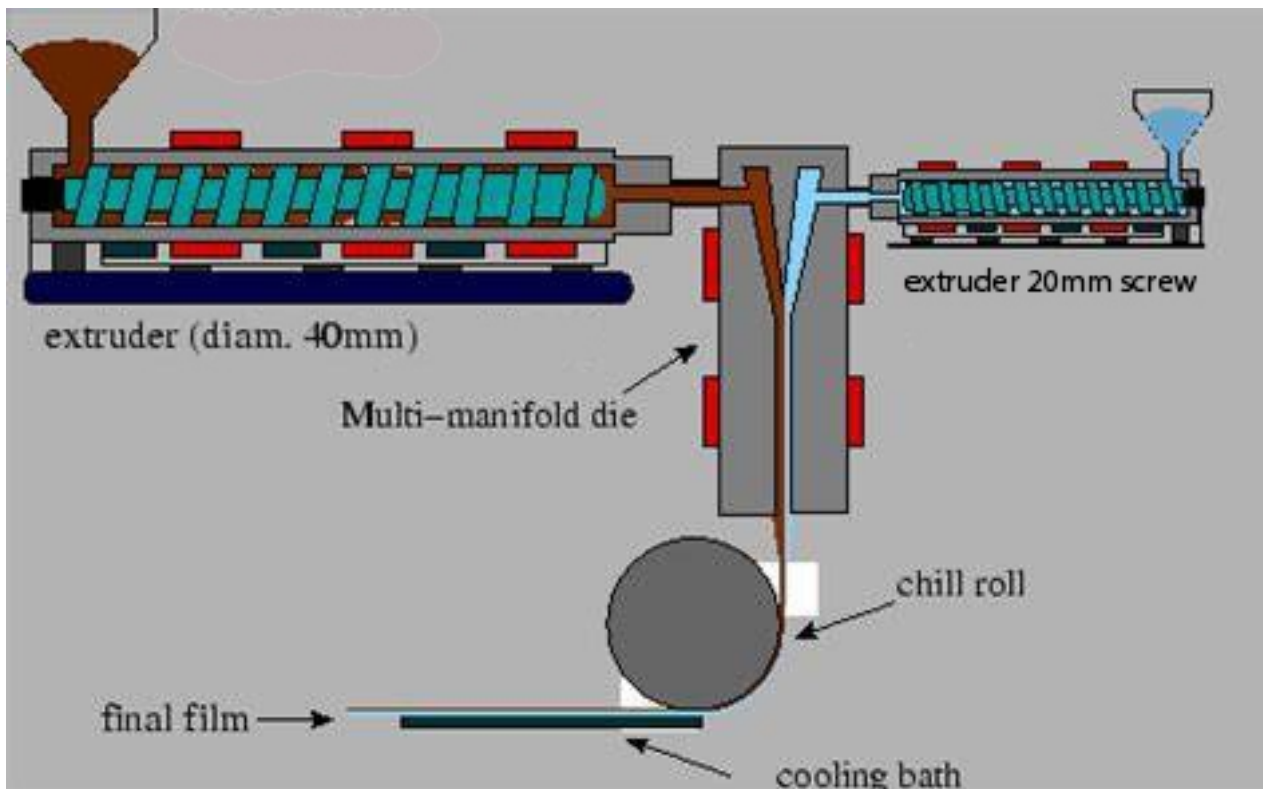
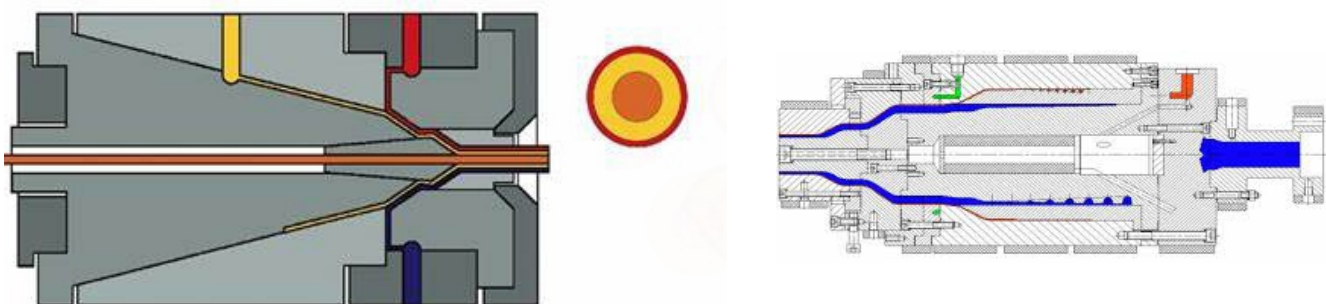


## Coextrusion in Polymers & Food

Mono or single layer/color extrusion means putting out the single colour polymer continuously through a die for uniform section product. Co extrusion, therefore means using similar or different polymer of same or different color through a die attached to extruder which is commonly fed by multiple extruders. This is done for aesthetics or product function ability point of view and sometimes to control cost of product. We see such products in everyday life. The Schematic below depicts the co extrusion process simply with 2 layers or colors in final product. So, it is clear the co-extrusion die will have more than one inlet port for each extruder, 2,3,4,5 being common in many products.

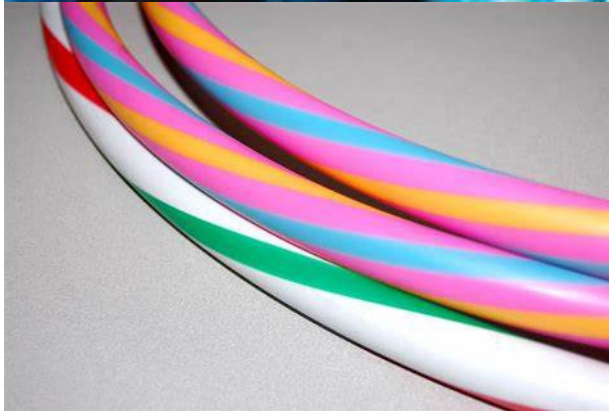


In this case Flat Film is produced using 2 different materials or color.



Pipe Coextrusion diehead with 3 and double layers shown here

# Examples of Co Extrusion- Polymers





**2 Colour TPR/PVC Eraser Extrusion line**



**Twin Colour Snack Pellets Extrusion**

**Example of Coextruded snacks**

Twin or more colours are produced using multiple Extruders single or Twin on various polymers or food cereals to produce appealing products. Special moulds are produced to take feed from multiple Extruders to produce desired shape/layers and colours. Different die shapes and colours are possible using suitable moulds. In polymer Extrusion, different polymers or colours are also combined likewise for appeal and improving properties of products.

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# Coextrusion Mould Examples



The Coextrusion Moulds are specially made in different parts to produce desired colours and layers in polymers or Food Extrusion. They have complicated flow channels to unite suitably in final plate to get the desired product.

