

Title:

An Introduction to Shrink Wrapping Covering Applications as well as Materials and Machinery

Word Count:

1222

Summary:

This article describes Shrink wrapping, a particularly well-established form of packaging that

Keywords:

Shrink Wrapping, Packaging, Polyethylene, Transit, Shipping, Transportation, Industrial, Machi

Article Body:

Shrink wrapping is a particularly well-established form of packaging that has developed over t

Essentially, material is produced such that molecules are stretched as part of the manufacturi

This is a traditional division between packaging for transit and packaging for display, whilst

The key to the application of shrink wrap for transit is cost so that the material and its app

The conventional definition of a transit wrap involves the use of a sleeve sealer and polyethy

A typical wrap offers two open sides as a consequence of the use of a sleeve although in certa

Polyethylene has the attributes of strength at a certain thickness together with shrink ratios

There are further benefits of shrink wrap since waste disposal after delivery is relatively in

Normal applications involve the collation of products although individual packs are readily be

The market also offers developments in this area such as coloured and printed films. Polyethyl

However, polyethylene may frequently offer sufficient optics so that it is acceptable in these

As technology has advanced in this market so have applications crossed over traditional defini

Consequently, certain transit packs are found using normal display films where the pack and it

There are highly specialised display films that are designed to offer the same strength as pol

Display shrink wrap is traditionally oriented towards non-food point of sale packaging where t

The latter is the main distinguishing feature of display packaging, the partial wrap with a sl

Some years ago, the conventional film used for this purpose was PVC ~ polyvinylchloride with p

PVC has largely been replaced by polyolefin shrink film although PVC continues to be offered.

PVC has particular benefits in that it is the easiest of any films to seal and shrink but it s

PVC's sealing temperature is very close to its degradation temperature at which a number of by

The HCL may be dealt with through ventilation. It is to be stressed that all materials should

Carbon deposits require regular cleaning whilst the presence of HCL will give rise to a need f

The plasticiser in PVC will harden in cold conditions and soften in hot conditions and this ma

PVC requires storage at normal room temperature failing which it is likely to start to shrink. The overall machineability of PVC still gives this material some market share but, increasingly Display wrapping involves the creation of a two dimensional bag around the product. This is conventionally performed using an L Sealer with centre folded film. The sealer allows L sealers are found in a variety of forms ~ manual, semi and fully automatic. A large part of Fully automatic L sealers have found increasing use as their cost and versatility have improved. The highest output speeds are offered by flow wrappers using side seal or overlap mechanisms. Polyolefin films offer a variety of attributes so that a very large range of applications can In general, these are not found in food applications although once more, definitions continue Normally, other materials than shrink are used to extend shelf life and as a consequence, shrink Display applications for polyolefin have almost no limits as materials have been engineered to Soft shrink as well as perforation and printing are standard offers. At a more specialised level There are a few notable ranges of polyolefin shrink film that offer better machineability and Polyolefin manufacture typically uses three or five layer extrusion and this confers performance It will be noted that the key to market movement is the development of material to address special There is no doubt that polyolefin shrink film will continue to develop so that it addresses even

This is a demo version of txt2pdf v.10.1  
Developed by SANFACE Software <http://www.sanface.com/>  
Available at <http://www.sanface.com/txt2pdf.html>