



What is Heat Shrink?

Heat Shrink is a plastic tube which is subsequently expanded to more than its original size, when heat is applied, it then shrinks back to its original size.

What is it used for?

The application possibilities are many, in fact, only your imagination sets the limit. Heat Shrink is highly recognised as a product used for electrical insulation, but also industries such as offshore, automotive, aerospace, windmill and many more use Heat Shrink. It can be used anywhere when there is requirements for insulation or other forms of protection.

How to use Heat Shrink

First the Heat Shrinkable tube must be cut to the desired length, it is important for the tubing to be cut cleanly, not with a blunt knife/blade. If the cut is not clean and neat there may be a risk of it running or splitting when it starts to shrink. Be sure to shrink with the correct and appropriate tools. The best result is with a heat gun/torch or an oven. The crimp temperature varies depending on the material used. All materials have a temperature where shrinkage will start, as well as a temperature that is required to achieve full shrinkage.

Shrink ratio

A shrink ratio of 2:1 means that a sleeve that is 2.4mm before shrinkage will be 1.2mm after it is fully shrunk. All measurements are always internal dimensions given in millimeters. Boxco provides Heat Shrink tubing with shrink factors of 2:1, 3:1, 4:1 and 6:1.

Material types

Plastic raw material is available in many different types such as Polyolefin, Fluoroelastomer, Kynar, Teflon and many more. Your choice depends entirely on the requirements for temperature, flexibility, insulation, wall thickness as well as many other factors. Some materials are also produced with adhesive inside, which is suitable where there is a requirement for moisture-proofing, etc., but be aware that it is an adhesive and not glue. Some types are available on spools and others in cut lengths, and in many different colours.

Boxco is always available to guide you in choosing the right product.

How is Heat Shrink produced?



Heat Shrink production can be divided into 3 steps.

- 1** First a tube is produced with the precise thickness and the required finished size after full shrinkage.
- 2** Then the plastic material is cross-linked, in this way it will have a kind of built-in memory, which means that this is the size it will always come back to when heat is applied.
- 3** Finally the plastic material is expanded so that it becomes the finished size heat-shrink tubing.
This process requires great expertise to achieve a satisfactory result with a uniform and correct thickness.

Check List before you order



- What size is the object to be crimped?
- How much should the shrink tubing shrink down to?
- How much heat can the object to be crimped tolerate?
- Is there a need for protection against moisture?
- Is coloured shrink tubing required?

If you need more information please contact us or visit our website

www.boxco.se

