

# Heat-Shrinkable Epoxy Tubing

Plamar heat-shrinkable tubing with prepreg epoxy inner layer, at stage B



## Key Benefits

- Bonds shrink tube to object
- Excellent cured strength compared to Plamar alone
- Good cut through strength
- Can form a waterproof seal
- Class F application
- Brushless motor application - fixing magnets



## Combines the bonding strength of epoxies with the heat shrink capabilities of Plamar

Lamina's heat-shrinkable epoxy tubes shrink 25-30% on internal diameter and during shrinking at 150°C the epoxy lining is activated and bonds the tube to the object being covered, giving a route towards a waterproof seal, to stop ingress of moisture under the insulation.

For fixing electric magnets in place for motor applications the Plamar heat-shrink material brings the epoxy layer into intimate contact with the magnets. This is then cured giving a much stronger structural material than can be achieved by Plamar alone, as well as securing in place with a permanent bond.

The epoxy coating is available in gauges of 0.050 and 0.100mm and generally will bond strongly to most surfaces. Samples can be supplied to customers for rigorous in-house testing. The epoxy coating may be applied to any Plamar tube wall thickness and internal diameter.



Heat shrinkable epoxy is an ideal solution for easy bonding of magnets in motors.

## Advances opening up new applications

The ability to bond the shrunk tube to the part being covered or insulated has endless advantages in a wide range of applications. The epoxy for maximum performance should be cured at 150°C for 15 minutes or 130°C for 1 hour. Subsequently the material is suitable for use up to 150°C.



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