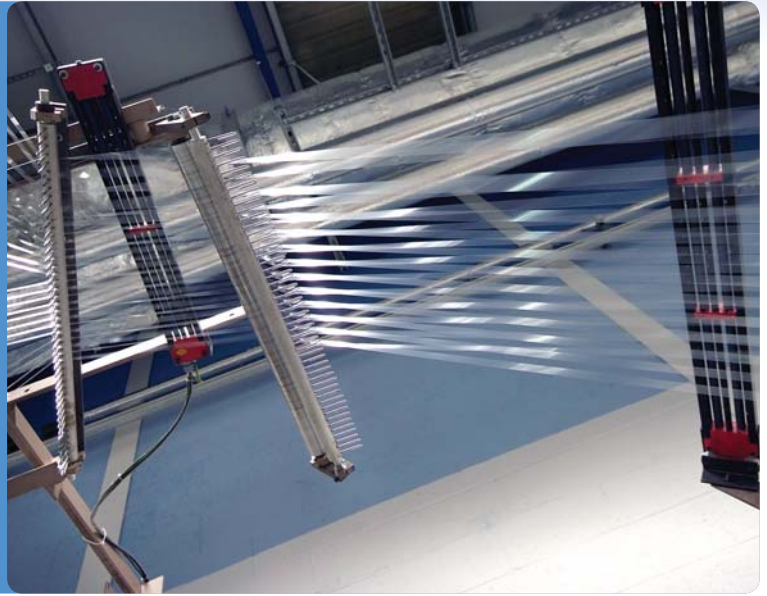


# Plamar Heat-Shrink Tube

Cost effective Heat-Shrink Tube for general insulation and use in hermetic electric motors



- 30-35% shrink secures and insulates components, wires and connections
- Quick and easy 10 second shrink-on application
- Superb dielectric and cut through strength across operating temperatures
- Constructed from UL recognised film
- Compatible with most refrigerant and oil combinations
- Multilayer Dupont™ Mylar® construction suitable for Class B applications and operating temperatures of 130°C to 155°C in continuous use



## Rapid-fit, secured insulation and chemical protection

Plamar Heat-Shrink Tube prevents line failures in both hermetic motors and in general purpose use by securing and insulating electrical connections. Shrink-on fitting provides comprehensive mechanical and electrical protection, cutting line failures arising from vulnerable connections.

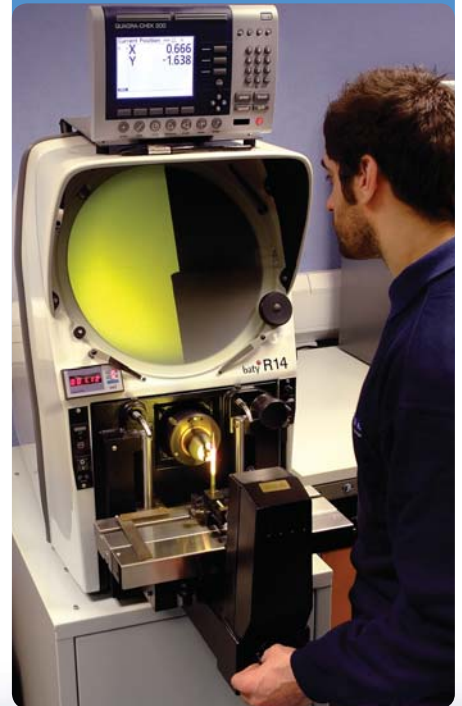
Plamar Heat-Shrink Tube maintains high dielectric strength and cut through resistance in the most demanding applications and at temperatures of up to 160°C in short term use. Consistent characteristics and ease of application give manufacturers a cost efficient means to boost the mechanical reliability of electrical systems.

Plamar Heat-Shrink Tube is particularly suited to use in hermetic systems due to refrigerant compatibility and low extractables.

Plamar Heat-Shrink Tube can be readily supplied with lengths and wall thicknesses to suit the application at hand.

## More features

- Available with internal diameters from 1.6mm to 210mm
- Wall thicknesses from 0.050mm to 0.500mm
- Ultra stable shape and roundness provides for easy application and mechanical reliability
- Tight manufacturing tolerances and consistent wall thickness suit bulk process engineering environments
- Available in cut lengths to suit application



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TUBULAR TECHNOLOGY



## Technical Data

### Electrical Properties of Base Film

Property of Base Film	Typical Value		Test Condition	Test Method
	16 HS film (16 $\mu\text{m}$ )*	37.5 HS film (37 $\mu\text{m}$ )		
Dielectric strength (mimumum kV)	-	3.5	-	ASTM D 149

\*1  $\mu\text{m}$  - 0.001 mm, or approximately 4 gauge

### Physical Properties of Base Film

Property of Base Film	Typical Value		Test Condition	Test Method
	16 HS film (16 $\mu\text{m}$ )*	37.5 HS film (37 $\mu\text{m}$ )		
Tensile Strength (Mpa)				
MD	160	190	Machine Direction (MD)	ASTM D 882
TD	300	260	Transverse Direction (TD)	ASTM D 882
Yield ( $\text{m}^2/\text{kg}$ )	44.80	19.10	-	-
Modulus (Mpa)	1,750	2,100	MD	ASTM D 882
	4,900	3,600	TD	ASTM D 882
Elongation (%)	180	170	MD	ASTM D 882
	90	110	TD	ASTM D 882
Water Vapour Transmission Rate ( $\text{g}/\text{m}^2/24$ hrs)	40	15	38°C, 90% Relative Humidity	ASTM F 1249
Oxygen Permeability ( $\text{cc}/\text{m}^2/24$ hrs)	125	75	Before shrinkage	ASTM D 3985
	60-75	30-45	After shrinkage	ASTM D 3985

### Optical Properties

Property of Base Film	Typical Value		Test Condition	Test Method
	16 $\mu\text{m}$	37 $\mu\text{m}$		
Haze (%)	11.5	15	-	ASTM D 1003, Gardner Hazemeter

Further information on DuPont™ Mylar® HS grade heat shrinkable film available from DuPont™