

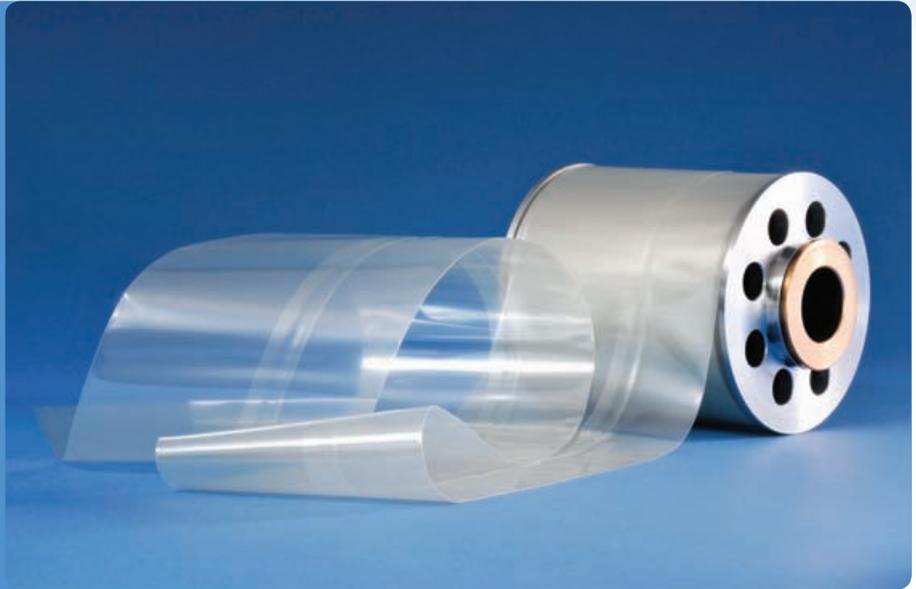
Contech Tubing

Continuous tubing sleeve for Class B applications, without joins.



Key Benefits

- Continuous form – available in lengths over 1,000m
- Low cost – various grades available
- Ease of assembly - no joins
- Retains properties from -70°C to 130°C, and short term higher temperatures (30 minutes at 220°C)
- Transparent film for visual assessment



Continuous Shrink sleeve

The continuous tube is Lamina's answer to those customers that require a continuous feed of heat-shrink polyester sleeve. This product design meets the requirements of noise reduction sleeves for rotors typically used in the manufacture of washing machine motors. The continuous tube is supplied on rolls/bobbins to allow it to be used on automated machines.

Time saving

The continuous form of Contech tubing eliminates the step of removing any joined sections that can add unnecessary complication to the manufacturing process. Contech is the answer to increased line speed, reduced cost of production and less waste. The tube is slipped on to the rotor, and thermally shrunk. The resultant tube covers up rotor gaps that cause noise at high rpm, by bridging the slots on the rotor. The Contech tube does not interfere with the magnetic flux of the rotor, and is highly resistant to thermal changes that can be experienced in heavy use, and has been rigorously tested in use to 50,000 cycles.

Cutting edge design

The continuous tube comes in over 1,000m lengths and uses cutting edge engineering to specifically roll the material to avoid creasing, making the sleeving process much easier and providing a better end product. The manufacture of Contech tubing also avoids thinner film regions at joints that are prone to failure in other designs.

Applications

The positioning and thermal retraction/thermoforming cycle (5-10 seconds at 150°C) enables extensive use of automatic production equipment, as used in the electric household appliance and automotive sectors.

Rotor cover, packaging, battery sleeves and lead out wire jacketing, all benefit from a continuous formed tube.

Materials

Contech is available in Polyester grades, such as Mylar heat-shrink. A variety of film gauges are available with layflat widths of 10-240mm possible.



Contech Tubing is an ideal solution for rotor noise reduction

For more information or to order contact us:
email: sales@lamina.uk.com
tel: +44 (0) 1403 78 31 31

www.lamina.uk.com

Lamina
TUBULAR TECHNOLOGY



Technical Data

Electrical Properties				
Property of Base Film	Typical Value		Test Condition	Test Method
	16 HS film (16 μm)*	37.5 HS film (37 μm)		
Dielectric strength (mimumum kV)	-	3.5	-	ASTM D 149
Physical Properties				
Tensile Strength (Mpa)				
MD	160	190	Machine Direction (MD)	ASTM D 882
TD	300	260	Transverse Direction (TD)	ASTM D 882
Yield (m^2/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				
Haze (%)	11.5	15	-	ASTM D 1003, Gardner Hazemeter

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

*1 μm - 0.001 mm, or approximately 4 gauge