Triple Endcaps - a Patented Lamina Product
Plamar Heat-Shrink and Non-Shrink Endcaps

Rapid assembly design to improve efficiency and reduce repetitive strain injury

Key Benefits

- Faster insulation of three connections with one pre-assembled product
- Reduces employee repetitive strain injuries (RSI)
- Secures and insulates wire connections in hermetic electric motors
- Quick and easy 10 second shrink-on application
- Superb dielectric, mechanical and cut through strength across operating temperatures
- Constructed from UL recognised film

Quick and easy application for multiple connections – saves time and money

The triple-cap design allows operators to rapidly bring together 3 connections in a more efficient way, increasing line-speed for production, whilst also decreasing the amount of repetitive movements required by operators, thus reducing the company's exposure to RSI liabilities and sick days.

Reduce Repetitive Strain Injury (RSI)

Lamina Dielectrics offer an industry first option to reduce your company's exposure to RSI. Countries in the European Community have guidelines to encourage RSI prevention, also referred to as Work Related Musculoskeletal Disorders (WMSDs).

Repetitive Strain Injury (RSI) is a potentially disabling illness caused by prolonged repetitive hand movements. Manufacturing operators are particularly open to such repetitive movements, and it is estimated that over 10% of sick notes are RSI related at a cost to companies.

Organisations which employ strategies to improve work place ergonomics have found that musculoskeletal disorders resulting in lost work time are 3 times less likely to occur*. Research suggests that for every $1 invested in ergonomics intervention strategy (e.g. RSI prevention), there is a return of $17.80**.

The conclusions from both these studies are that investing in RSI prevention makes good economic sense.

Adaptable - The Triple Endcap can be widely adapted to utilise most of Lamina's Plamar end cap range, with alterations possible to custom fit your needs

- Compatible with most refrigerant and oil combinations
- Robust, six layer Dupont Mylar construction suitable for class B applications and operating temperatures of 130°C in continuous use

*Schneider 1998 cited by RSIA. **Buckle 1999 cited by RSIA

Triple Endcaps are designed to reduce RSI and speed up production

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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 (mimimum 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 (g/m^2/24 hrs)	40	15	38°C, 90% Relative Humidity	ASTM F 1249
Oxygen Permeability (cc/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

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