PRECISION PRODUCTS GROUP, INC.

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Type LS – Low Shrink Polyester Sleeving

Bulletin #S-3

- Type LS (Low Shrink) polyester sleeving is produced by spirally winding strips of shrinkable polyester (Polyethylene Teraphthalate or PET) film into a tubular form using a specially formulated adhesive as a bonding agent. This unique adhesive is a polyester resin chemically similar to and with comparable properties to the polyester film.
- The thermoplastic adhesive softens sufficiently when heat is applied to permit stress-free shrinkage throughout the sleeving. The sleeving shrinks within seconds of exposure to a temperature of 150°C. Temperature and exposure time can be varied to achieve a desired shrinkage rate depending on application.
- Once the sleeving has been shrunk, it will remain dimensionally stable at the shrinking or lower temperatures.

LS Polyester sleeving is available in the following sizes:

Inside diameters	.026" to 2.000" tolerance +/- .005"
Wall thickness	.0015" to .010" tolerance +/- .001"
Lengths	up to 72" Standard tolerance +/- .250" Cut to Length tol. +/- .010" to .030"

- Sleeving can be supplied in colors, striped or pre-printed.
- For more critical tolerances and information about printing capabilities, please inquire.

Note: This material property information is the best currently available on the subject. The data should be viewed as a general guide to tube and material properties, not a performance guarantee. The customer should examine the suitability of the finished product for individual applications.

General Properties of Type LS Polyester Sleeving

Properties	Data	Test Method
Melting point	250°C to 255°C	-
Service temperature	-60°C to 150°C	-
Dielectric strength	2500 volts/mil (min) @ 25°C, 60 cycle	ASTM D-149
Dielectric strength	2000 volts/mil (min) @ 150°C, 60 cycle	ASTM D-149
Diameter shrinkage	4-11%	-
Length shrinkage*	4-11%	-
* (Note: Shrinkage properties vary depending on diameter, wall thickness and application methods, i.e., temp & exposure time)		
Water absorption	1% max, 24 hr, immersion @ 25°C	ASTM D-570-595
Corrosive effect on copper	Negligible	-
Resistance to industrial solvents	Excellent	-
Resistance to Freon	Excellent	-
Resistance to transformer oil	Excellent	-
Chemical resistance to acids, bases, impregnants, varnishes	Excellent	-
Fungus and bacteria resistance	Inert	-
Bending recovery	Excellent	-
Tear resistance	Excellent	-
Puncture resistance	Good	-
Abrasion resistance	Good	-
Peel strength	357 grams/CM (min)	-
Flammability*		
*Slow burning, self-extinguishing; will not support combustion after shrinkage on non-flammable components.		

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