



## Non Stick Teflon heat shrink

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Sleeve It's range of Teflon® heat shrinkable sleeves provide the ultimate non stick surface for rollers of any diameter. Manufactured in the UK, the sleeves offer the most cost effective and simple way to improve the quality of your end product.

### • Cost savings

The elimination of build up from sticky substances such as adhesive, latex and size means less downtime and less scrap material because of the improvements in the product quality. End users have reported efficiency increased of over 25%.

### • Long life

The use of Teflon® sleeves protects the roller surface. The thickness of the sleeve is usually 0.5mm which provides a substantial covering.

### • Chemical resistance

Sleeve It roller covers offer total protection against corrosive chemicals and cleaning solvents.

### • Any substrate

The sleeves can be fitted to rollers of virtually any construction.

### • Choice of material

The majority of sleeves are supplied in Teflon® FEP. However, for high flexibility and high temperature applications, Teflon® PFA sleeves can be supplied in the same range. For high temperature and/or pressure applications we recommend that the sleeves be bonded to the rollers. Sleeve It will supply the sleeve with a chemically etched inside diameter to allow the sleeve to be bonded.

### Sleeve It Range Of Seamless Heat Shrinkable Sleeves in FEP or PFA 25mm – 380mm

Normal Diameter mm	Normal Diameter inches	Will Fit mm	Diameters inches	Minimum Expanded Diameter mm	Minimum Expanded Diameter inches
25	1"	25 to 30	1" to 1.2"	33	1.3"
32	1.25"	30 to 36	1.2" to 1.4"	41	1.6"
38	1.5"	36 to 43	1.4" to 1.7"	48	1.9"
51	2"	43 to 53	1.7" to 2.1"	58	2.3"
64	2.5"	53 to 66	2.1" to 2.6"	71	2.8"
76	3"	66 to 79	2.6" to 3.1"	83	3.3"
89	3.5"	79 to 80	3.1" to 3.6"	96	3.8"
102	4"	89 to 109	3.6" to 4.3"	114	4.5"
127	5"	109 to 132	4.3" to 5.2"	137	5.4"
152	6"	132 to 157	5.2" to 6.2"	162	6.4"
178	7"	156 to 178	6.2" to 7.0"	183	7.2"
203	8"	178 to 211	7.0" to 8.3"	216	8.5"
229	9"	211 to 234	8.3" to 9.2"	241	9.5"
257	10.5"	234 to 269	9.2" to 10.6"	279	11"
306	12"	269 to 307	10.6" to 12.1"	325	12.8"
380	15"	307 to 401	12.1" to 15.8"	411	16.2"

Standard Lengths – Sleeves must be ordered in standard lengths.

25mm – 127mm available in lengths

0.9m 1.2m 1.5m 1.8m 2.1m 2.4m 3.0m 3.7m 4.3m 4.9m 5.5m 6.1m  
 (3" 4" 5" 6" 7" 8" 10" 12" 14" 16" 18" 20")

152mm and upwards also available in lengths

6.7m 7.3m 7.9m 8.5m 9.1m (22" 24" 26" 28" 30")

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# SLEEVE IT

LIMITED

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Perhaps the six easiest steps to improve your product quality....



### 1. Measuring the roller

Accurately measure the face length of the roller and the diameter.



### 2. Ordering the sleeve

When ordering, select the size of the sleeve required from the list of sizes available as shown in the table below. Please provide details of the substrate of the roller and the operating condition including temperatures and pressures if any.



### 3. Fit sleeve over roller

A lifting pole is required to support the roller while the sleeve is slipped over.



### 4. Shrink down the sleeve

Working from one end to the other, shrink the sleeve using a high powered hot air gun. (See our recommendation overleaf).



### 5. Stretching

The sleeve will grow in length during shrinkage. For large diameter sleeves we recommend the use of a stretcher to provide tension as the sleeve shrinks, to prevent wrinkles.



### 6. Completion of shrink down

The sleeve can either be trimmed flush or shrunk over the ends of the roller.

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### TYPICAL PROPERTY VALUES OF TEFLON® FEP & PFA

PROPERTY	FEP	PFA
<b>GENERAL (TUBING)</b>		
Wall Thickness, mm	0.5	0.5
Shrinkage, % (Approximate)	20-25	20-25
Specific Gravity	2.14 to 2.17	2.12 to 2.17
Melting Point, °C	250-290	305
Shrinkage Temperature, °C	100-200	100-200
Grip Force, psi	5-8	5-8
<b>MECHANICAL</b>		
Tensile Strength, psi @		
Yield	1,800	2,200
Ultimate	3,000-4,000	4,500
Impact strength, izod @	No Break	No Break
Water Absorption,%	<0.01	0.03
Elongation, %	250-300	300
Flex Life, cycles	40,000	>600,000
Coefficient of Friction(Kinetic) (Film to Film)	0.57	0.46
<b>THERMAL</b>		
Continuous-Service Temp,°C	150-200	200-260
Coefficient of Linear Thermal Expansion per °F (770°F to 120°F)	7.9 x 10 <sup>o</sup>	6.7 x 10 <sup>o</sup>
Thermal Conductivity (-140°C to 182°C) BTU-in./HR/FT/°F	1.4	1.8
<b>ELECTRICAL</b>		
Dialectric Stength Short Time (10ml) Volts/ml	2,100	2,000
Dielectric Constant	2.1	2.1
Volume Resistivity, Ohm-cm	<10 <sup>o</sup>	>10 <sup>o</sup>
<b>CHEMICAL</b>		
Resistant to practically all chemicals except fluoride, molten alkali metals and certain complex halogenated compounds		
*Dupont Reg'd T.M.		

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