

**NON STICK
HEAT SHRINK
TEFLON* ROLLER
COVERS**

by **HOLSCOT**

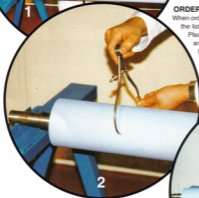
*TM DUPONT

Perhaps the



MEASURING THE ROLLER

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



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 conditions including temperatures and pressures if any.

FIT SLEEVE OVER ROLLER

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



Holscot Range Of Seamless Heat Shrinkable Sleeves in FEP or PFA 25mm - 380mm

Nominal Diameter mm	Nominal Diameter Inches	Will Fit		Minimum Expanded Diameter mm	Minimum Expanded Diameter Inches
		mm	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 89	3.1" to 3.6"	96	3.8"
102	4"	89 to 106	3.6" to 4.3"	114	4.5"
127	5"	106 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"	157 to 178	6.2" to 7.0"	183	7.2"
203	8"	176 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"
305	12"	269 to 307	10.6" to 12.1"	325	12.8"
380	15"	307 to 401	12.1" to 15.6"	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')

INDUSTRIES SERVED:-

- PAPER INDUSTRY
- CONVERTING INDUSTRY
- PHOTOCOPIERS/REPROGRAPHICS
- PRINTING INDUSTRY
- TEXTILES
- CHEMICAL INDUSTRY
- ELECTRICAL INDUSTRY

six easiest steps to improve your product quality . . .

Holscot'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 improvement in end product quality. End users have reported efficiency increases 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

Holscot Teflon® 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. Holscot will supply the sleeve with a chemically etched inside diameter to allow the sleeve to be bonded.



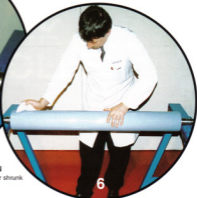
SHRINK DOWN THE SLEEVE

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



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.



COMPLETION OF SHRINK DOWN

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

International fitting and distribution service

We can fit or supply roller covers anywhere in the world. Ask for more information



TYPICAL PROPERTY VALUES OF TEFLON® FEP & PFA

PROPERTY	FEP	PFA
GENERAL (TUBING)		
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
MECHANICAL		
Tensile Strength, psi @		
Yield	1,800	2,200
Ultimate	3,000-4,000	4,500
Impact Strength, foot @	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
THERMAL		
Continuous-Service Temp. °C	150-200	200-260
Coefficient of Linear Thermal Expansion per °F (77°F to 120°F)	7.9 x 10 ⁻⁶	6.7 x 10 ⁻⁶
Thermal Conductivity (-140°C to 182°C) BTU-in./HR.FT ² .°F	1.4	1.8
ELECTRICAL		
Dielectric Strength Short Time (10 ml) Volts/ml	2,100	2,000
Dielectric Constant	2.1	2.1
Volume Resistivity, Ohm-cm.	<10 ¹²	>10 ¹²
CHEMICAL		
Resistant to practically all chemicals except fluoride, molten alkali metals and certain complex halogenated compounds.		
*Dupont Reg'd TM.		

ALSO AVAILABLE FROM HOLSCOT:-

HOT AIR BLOWER

Fig 7. High powered hot air blower with electronic temperature control between ambient and 650 deg.C.

ADHESIVE BONDING KIT

Fig 8. Shows adhesive bonding kit required for sleeves used on rollers with high temperature and/or pressure applications. In this case the sleeves must be etched.

COATED ROLLERS

Holscot can also provide non stick spray coatings in PTFE.

CUSTOM EXTRUSIONS

Because Holscot extrude their own tubing we are able to provide alternative thicknesses, pigments and materials such as MFA.

Holscot Industrial Linings Ltd
Alma Park Road,
Alma Park Industrial Estate,
Grantham, Lincs. NG31 9SE
Tel: (01476) 574771
Fax: (01476) 563542

Holscot Europe
Postbus 7401, 4800 GK Breda,
The Netherlands
Tel: (076) 5718295
Fax: (076) 5718315

Holscot Northern Division
Unit 9, Burnmill Industrial Estate,
Burnmill Road, Leven,
Fife, KY8 4RA
Tel: (01333) 427555
Fax: (01333) 422529

FEP Shelman
Unit K, Oldham Central Trading Park,
Coulton Close, Oldham, OL1 4EB
Tel: (0161) 628 0628
Fax: (0161) 628 0555

Cameron Coatings
18, Forest Vale Road, Cinderford,
Gloucestershire, GL14 2PH
Tel: (01594) 626088
Fax: (01594) 626092

Holscot Extrusions
Unit K, Oldham Central Trading Park,
Coulton Close, Oldham, Lancs. OL1 4EB
Tel: 0161 628 6266
Fax: 0161 628 0555

HOLSCOT GROUP

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