



FEP & PFA Roll Covers

SIMPLE APPLICATION OF HEAT CREATES A SUPER-TIGHT BOND

Rollers are an integral element of the manufacturing equipment in paper mills, printing firms and a number of other high-volume industrial environments. Roll Covers protect rollers, helping to maximize productivity while reducing maintenance-related downtime.

Seamless FEP and PFA Roll Covers are easy to install thanks to strong hoop stress and shrink properties. They deliver best-in-class corrosion protection, process yield and release properties, with a non-stick surface treatment that dramatically decreases material build-up and helps reduce maintenance requirements. An etching process on the inside diameter (I.D.) of the Roll Covers is recommended to ensure maximum bonding to metal and rubber rolls.

Etching is recommended for:

- Wet environments
- Corrosive environments
- Elevated temperature applications (>200°F / 90°C)
- Nip rollers (pressure application)
- High speed rollers
- Bowed rollers

Typical Applications

- Pulp and paper
- Textile
- Converting
- Laminating

Features and Benefits

- FEP- and PFA-based construction
- Non-stick surface
- Chemical resistance
- Standard and custom sizes, diameter and wall thickness available
- I.D. etching
- Working temperature:
 - up to +200°C for FEP
 - up to 260°C for PFA



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Part Number	Roll Diameter Range	
	in (mm)	in (mm)
THFE6-100020	0.88 (22.4)	1.08 (27.4)
THFE6-125020	1 (25.4)	1.3 (33)
THFE6-150020	1.3 (33)	1.7 (43.2)
THFE6-200020	1.7 (43.2)	2.1 (53.3)
THFE6-250020	2.1 (53.3)	2.6 (66)
THFE6-300020	2.6 (66)	3.1 (78.7)
THFE6-350020	3.1 (78.7)	3.5 (88.9)
THFE6-400020	3.5 (88.9)	4.3 (109)
THFE6-500020	4.3 (109)	5.2 (132)
THFE6-600020	5.2 (132)	6.2 (157)
THFE6-700020	6.2 (157)	7.2 (183)
THFE6-800020	7.2 (183)	8.3 (211)
THFE6-900020	8.3 (211)	9.2 (234)
THFE6/105020	9.2 (234)	10.6 (269)
THFE6/120020	10.6 (269)	12.2 (307)

Typical Physical Properties

Property	ASTM Method	FEP Value	PFA Value
Specific Gravity		2.15	2.15
Water Absorption		0.01%	0.03%
Coefficient of Friction, Dynamic	D1894	0.2	0.2
Durometer		53 Shore D	
Coefficient Flame Rating	UL 94	V0	V0
Tensile Strength at Break @73°F (23°C)		3000psi (21N/nm ²)	4000psi (28N/nm ²)
Elongation		300%	
Dielectric Constant	D150	2.1	

Unless otherwise noted, all tests were conducted at room temperature (73°F). Values shown were determined on 0.075" thick extruded strip or 0.075" thick molded ASTM plaques or molded ASTM durometer buttons.

Glue Information

When etching is used, we offer 2 epoxy glues with different hardeners. BPA1000 has a shorter set time and is softer once hardened.

Glue	Pot Life	Ambient Cure	Final Hardness	Breakdown Temperature of Epoxy
BPA1000	2 Hours	72 Hours	Hardens to 63-70 Shore D	250°F (120°C)
SA401	3 Hours	72 Hours	Hardens to 87 Shore D	250°F (120°C)



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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.