

## PTFE FABRICS

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- High temperature resistance
- Outstanding electrical properties
- Excellent release surface
- Superior chemical resistance

## TYPICAL APPLICATIONS

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### ■ MANUFACTURING DRESS SHIRTS AND BLOUSES

**Benefits:** PTFE fabrics are used in sizing operations and to heat seal necks, collars, and cuffs without damage to the fabric.

### ■ REPLACING STAINLESS STEEL AND ALUMINUM SCREENING

**Benefits:** In filtering applications, porous fabrics have the advantage over metal in that they conform more easily, are more cost effective, and do not disfigure during shipping. PTFE also resists chemicals and gases more effectively than steel and aluminum, and reduces the overall weight of a unit.

### ■ PLASTIC BAGS AND FILMS

**Benefits:** PTFE fabrics can be used during the process of heat sealing or cutting the bags. The fabric is used on the heat sealing bars to allow the plastic film to release from the sealing unit. When films are extruded, the PTFE fabrics are then used on the chill rollers to ensure that the film releases from the rollers.

**STANDARD GRADE 381** [Heavy PTFE Coating]**OVERVIEW**

Standard grade 381 provides a smooth surface and has excellent non-stick properties. It is constructed with a standard PTFE coating on glass fabric. Standard grade contains an optimum balance of substrate weave, strength, finish, and coating weight.

**APPLICATIONS**

- Release sheets on heat sealing machines and laminate presses
- Thermal insulation for high temperature applications
- Non-stick surfaces for paints, adhesives, food products, gaskets, seals, and bearings
- Covers for hot plates, platens, chutes, hoppers, troughs, and rolls

**FEATURES**

- Super smooth, low friction
- High tensile strength
- Non-stick
- Superior chemical resistance
- Exceptional dielectric properties
- High temperature resistance

**PERFORMANCE**

PROPERTY	UNITS	381-3	381-4	381-5	381-6	381-10	381-14
Color		Tan	Tan	Tan	Tan	Tan	Tan
Nominal Thickness	inches	.0030	.0037	.0052	.0058	.0088	.0135
Nominal Weight	lb/yd <sup>2</sup>	.27	.34	.49	.57	.88	1.30
Nominal Yield	yd <sup>2</sup> /lb	3.70	2.94	2.03	1.75	1.14	.77
Nominal Breaking Strength - Warp	lbs/inch	90	150	180	180	250	450
Nominal Breaking Strength - Fill	lbs/inch	80	90	180	180	200	350
Nominal Edge Tear - Warp	g	900	N/A	1,400	1,200	1,400	5,000
Nominal Edge Tear - Fill	g	500	N/A	1,200	1,100	2,000	4,000
Surface Resistance	Ω	1012	1012	1012	1012	1012	1012
Dielectric Strength	V/total	2,400	2,220	3,640	5,220	300	6,750
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°	-100°-500°	-100°-500°

\* Values shown are typical



## PREMIUM GRADE 380 [PTFE Coating]

### OVERVIEW

PTFE coated 380 has a super smooth surface suitable for many advanced applications. It is constructed with a PTFE coating on glass fabric. Premium Grade has an extremely slick, non-porous surface.

### APPLICATIONS

- Release sheets for cooking and baking
- Separator sheets
- Conveyor belts
- Release sheets for specialized heat sealing
- Motor and generator insulation
- Gaskets, seals, and bearing liners

### FEATURES

- Long lasting
- More durable than standard material

## PERFORMANCE

PROPERTY	UNITS	380-3	380-5	380-6	380-10	380-14
Color		Tan	Tan	Tan	Tan	Tan
Nominal Thickness	inches	.0032	.0054	.0064	.0064	.0158
Nominal Weight	lb/yd <sup>2</sup>	.32	.53	.64	.64	1.57
Nominal Yield	yd <sup>2</sup> /lb	3.13	1.89	1.56	1.56	.64
Nominal Breaking Strength - Warp	lbs/inch	90	180	180	180	450
Nominal Breaking Strength - Fill	lbs/inch	80	180	180	180	350
Nominal Edge Tear - Warp	g	900	1,200	1,100	1,100	1,400
Nominal Edge Tear - Fill	g	500	1,200	1,000	1,000	3,300
Surface Resistance	Ω	N/A	N/A	N/A	N/A	N/A
Dielectric Strength	V/total	3,200	5,600	7,040	7,040	300
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°	-100°-500°

Actual wear will vary according to individual applications. Please call your Curbell Plastics sales representative for more information.  
 \* Values shown are typical

**MECHANICAL GRADE 382** [Medium PTFE Coating]**OVERVIEW**

Mechanical grade 382 has an increased surface texture that is required for various mechanical low-load applications. It is constructed with a PTFE coating on glass fabric. Mechanical grade's construction provides cost-effective performance for mechanical applications.

**APPLICATIONS**

- Bottle washers
- Paint spraying curtains
- Corrosion-resistant protective curtains, aprons
- Food packaging
- Work surface coverings
- Belting and conveying

**FEATURES**

- Increased surface texture for a variety of mechanical low load applications
- Excellent dimensional stability
- Same non-stick characteristics of other PTFE fabrics

**PERFORMANCE**

<b>PROPERTY</b>	<b>UNITS</b>	<b>382-3</b>	<b>382-5</b>	<b>382-10</b>	<b>382-17</b>	<b>382-22</b>	<b>382-24</b>
Color		Tan	Tan	Tan	Tan	Tan	Tan
Nominal Thickness	inches	.0028	.0048	.0048	.0125	.0193	.0240
Nominal Weight	lb/yd <sup>2</sup>	.23	.38	.38	1.11	1.66	1.72
Nominal Yield	yd <sup>2</sup> /lb	4.35	2.63	2.63	.90	.60	.58
Nominal Breaking Strength - Warp	lbs/inch	90	180	180	450	600	475
Nominal Breaking Strength - Fill	lbs/inch	80	180	180	350	400	N/A
Nominal Edge Tear - Warp	g	900	1,900	1,900	6,000	N/A	N/A
Nominal Edge Tear - Fill	g	500	2,000	2,000	5,000	N/A	N/A
Surface Resistance	Ω	N/A	N/A	N/A	N/A	N/A	N/A
Dielectric Strength	V/total	N/A	N/A	N/A	N/A	N/A	N/A
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°	-100°-500°	-100°-500°

\* Values shown are typical



## ANTI-STATIC GRADE 385

### OVERVIEW

Anti-static grade 385 provides an anti-static surface with electrically conductive characteristics. It is constructed with a black PTFE coating, using carbon or graphite inclusions, on fiberglass.

### APPLICATIONS

- Pipe gaskets
- Anti-static applications
- Belting for synthetic yarn production

### FEATURES

- Special conductive treatment to reduce static build-up
- High temperature resistance and chemically inert like other PTFE fabrics
- Black fabric

## PERFORMANCE

PROPERTY	UNITS	385-3C	385-5C	385-6C	385-10C
Color		Black	Black	Black	Black
Nominal Thickness	inches	.0030	.0050	.0055	.010
Nominal Weight	lb/yd <sup>2</sup>	.27	N/A	N/A	.87
Nominal Yield	yd <sup>2</sup> /lb	N/A	N/A	N/A	N/A
Nominal Breaking Strength - Warp	lbs/inch	70	120	125	200
Nominal Breaking Strength - Fill	lbs/inch	50	100	160	150
Nominal Edge Tear - Warp	g	N/A	N/A	N/A	N/A
Nominal Edge Tear - Fill	g	N/A	N/A	N/A	N/A
Surface Resistance	Ω	N/A	N/A	N/A	N/A
Dielectric Strength	V/total	N/A	N/A	N/A	N/A
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°

\* Values shown are typical

## POROUS GRADE 384

### OVERVIEW

Porous grade 384 has a porosity range from breathing up to 1/4 inch mesh, and is used to allow escape of gases, air, etc. These products are constructed by variable impregnation of open mesh glass fabrics with a PTFE coating. Porous Grade has a porosity range from breathing (several microns) up to 1/4 inch (6.35mm) mesh and is used to allow the escape of volatile gases, warm air circulation for drying, and applications of vacuum for holding work to the fabric.

### APPLICATIONS

- Curing of rubber and plastic foams
- Release sheets for fabric coating
- Applications requiring filtering, draining, or drying

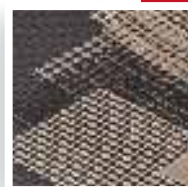
### FEATURES

- Allows outgassing of volatile products
- Excellent resistance to chemicals
- Promotes drying by allowing air to flow through the fabric

## PERFORMANCE

PROPERTY	UNITS	384-3	384-5	384-8	384-10	384-14	384-22
Color		Tan	Tan	Tan	Tan	Tan	Tan
Nominal Thickness	inches	.0025	.0048	.0076	.0125	.0193	.0193
Nominal Weight	lb/yd <sup>2</sup>	.14	.27	.45	.58	.72	.72
Nominal Yield	yd <sup>2</sup> /lb	7.14	3.70	2.22	1.72	1.39	1.39
Nominal Breaking Strength - Warp	lbs/inch	90	180	250	250	450	450
Nominal Breaking Strength - Fill	lbs/inch	80	180	200	200	350	350
Nominal Edge Tear - Warp	g	N/A	N/A	N/A	N/A	N/A	N/A
Nominal Edge Tear - Fill	g	N/A	N/A	N/A	N/A	N/A	N/A
Surface Resistance	Ω	N/A	N/A	N/A	N/A	N/A	N/A
Dielectric Strength	V/total	N/A	N/A	N/A	N/A	N/A	N/A
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°	-100°-500°	-100°-500°

\* Values shown are typical



## TEAR AND CREASE RESISTANT GRADE 368

### OVERVIEW

Tear and crease resistant 368 withstands heavy usage and resists tearing, folding, and creasing. It is constructed of standard PTFE coating on glass fabrics that are specially treated to increase tear resistance.

### APPLICATIONS

- Sealing and conveying operations that are subject to heavy loads and extreme wear
- Packaging machine belting
- Lining material on missile launching tubes
- Curtains and coverings with high flex and tight fold requirements

### FEATURES

- Smooth
- Non-stick
- High temperature resistance

## PERFORMANCE

PROPERTY	UNITS	368-3	368-5	368-6	368-24
Color		Tan	Tan	Tan	Tan
Nominal Thickness	inches	.0029	.0050	.0057	.0209
Nominal Weight	lb/yd <sup>2</sup>	.26	.45	.54	1.41
Nominal Yield	yd <sup>2</sup> /lb	3.85	2.22	1.85	.71
Nominal Breaking Strength - Warp	lbs/inch	90	170	170	500
Nominal Breaking Strength - Fill	lbs/inch	80	160	160	400
Nominal Edge Tear - Warp	g	1,800	2,500	2,000	N/A
Nominal Edge Tear - Fill	g	1,200	2,300	1,900	N/A
Surface Resistance	Ω	N/A	N/A	N/A	N/A
Dielectric Strength	V/total	N/A	N/A	N/A	N/A
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°

\* Values shown are typical