

# PTFE TAPES



## PTFE TAPES

- Excellent electrical, mechanical, and chemical properties
- Available with silicone (500°F) or acrylic adhesive (250°F)
- Non-adhesive PTFE also available

## TYPICAL APPLICATIONS

### ■ CHEMICAL PROCESSING PLANTS

**Benefits:** Packing material in chemical pumps is often exposed to the corrosive action of the chemicals being pumped. Thread seal tape and other PTFE tapes are impervious to most industrial chemicals. When used as a packing material in chemical pumps designed for high temperature applications, the PTFE packings retain their sealing properties.

### ■ HEAT SEALING AREAS OF PACKAGING MACHINERY

**Benefits:** PTFE coated tapes are applied to heat sealing areas to serve as durable non-stick coverings. Packaging materials do not stick to surfaces covered with PTFE tape. The tapes resist high temperatures, and provide a satisfactory rate of heat transfer from the sealing unit to the sealing area on the package.

### ■ ROLL COVERINGS

**Benefits:** PTFE tapes can be used for covering dryer cans and other similar types of textile processing equipment. The tape helps prevent the build-up of dyes and starches on drying rolls, and can also be cleaned or repaired without removing the roll from the machine, minimizing costly clean-up.

### ■ FOOD PROCESSING

**Benefits:** Belting is used to transport products over heating and cooling platens. It can also be used for the release of poly films from L-bar heat sealers and form-fill bagging machines.

## 2045 FILM – PTFE [Skived, Gray]

### OVERVIEW

Curbell Specialty Products 2045 is manufactured from a Virgin Skived PTFE (polytetrafluoroethylene) film coated with a pressure sensitive silicone adhesive.

### APPLICATIONS

- High-temperature release surfaces
- Guide rails
- Packaging equipment release surfaces
- Angle bars

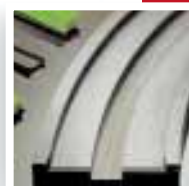
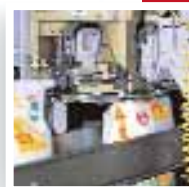
### FEATURES

- High temperature resistance
- Low coefficient of friction
- Thin
- Non-stick surface
- Easy release
- Non-toxic
- Pliable
- Chemically inert

## PERFORMANCE

PROPERTY	UNITS	2045-2	2045-3	2045-5	2045-10
Backing Material		Film-PTFE	Film-PTFE	Film-PTFE	Film-PTFE
Adhesive Type		Silicone	Silicone	Silicone	Silicone
Total Thickness	inches	.0035	.0045	.0065	.0115
Backing Thickness	inches	.0020	.0030	.0050	.0100
Adhesive Thickness	inches	.0015	.0015	.0015	.0015
Adhesion to Steel	oz/inch	30	35	40	50
Adhesion to Backing	oz/inch	N/A	N/A	N/A	N/A
Elongation	% at break	325	350	400	450
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°
Break Strength	lbs/in	15	20	30	60
Dielectric Strength	volts	7500	9500	13000	19500
Color		Gray	Gray	Gray	Gray

\* Values shown are typical



## 2255 FILM – PTFE [High Modulus, Gray]

### OVERVIEW

Curbell Specialty Products 2255 is a high modulus PTFE (Polytetrafluoroethylene) film, coated with a high-temperature, pressure sensitive silicone adhesive. Meets MIL-1-23594C.

### APPLICATIONS

- Release surface on heat sealers, blister formation, and form-fill-seal equipment
- Roll plate cover on lithography presses
- Overlamine in labeling and protective films

### FEATURES

- Extremely durable
- High dielectric and tensile strength
- High temperature resistance
- Low elongation, high modulus
- Chemically inert
- Anti-stick properties
- Non-toxic
- Low-friction

## PERFORMANCE

PROPERTY	UNITS	2255-2	2255-3	2255-5	2255-6
Backing Material		Film-PTFE	Film-PTFE	Film-PTFE	Film-PTFE
Adhesive Type		Silicone	Silicone	Silicone	Silicone
Total Thickness	inches	.0035	.0045	.0065	.0075
Backing Thickness	inches	.0020	.0030	.0050	.0060
Adhesive Thickness	inches	.0015	.0015	.0015	.0015
Adhesion to Steel	oz/inch	30	35	40	45
Adhesion to Backing	oz/inch	N/A	N/A	N/A	N/A
Elongation	% at break	150	175	275	200
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°
Break Strength	lbs/in	30	45	60	65
Dielectric Strength	volts	9000	11000	15000	18000
Color		Gray	Gray	Gray	Gray

\* Values shown are typical

**2275-2 FILM – PTFE** [Extruded Oriented, High Modulus]**OVERVIEW**

Curbell Specialty Products 2275-2 is manufactured from an extruded, oriented, high modulus PTFE film, which makes it exceptionally durable and abrasion resistant. It also has the same high temperature and anti-stick properties of PTFE.

**APPLICATIONS**

- Roller wrap tape in the production of laminates
- Continuous laminating production runs
- Fabrication of belts used in laminating equipment

**FEATURES**

- High tensile strength
- Exceptional abrasion resistance
- Superior release properties
- Excellent adhesion
- Removes cleanly
- Pigmented to facilitate visual inspection

**PERFORMANCE**

PROPERTY	UNITS	2275-2
Backing Material		Film-PTFE
Adhesive Type		Silicone
Total Thickness	inches	.0042
Backing Thickness	inches	.0023
Adhesive Thickness	inches	.0019
Adhesion to Steel	oz/inch	40
Adhesion to Backing	oz/inch	18
Elongation	% at break	110
Operating Temperature	°F	-100°-500°
Break Strength	lbs/in	45
Dielectric Strength	volts	11000
Color		Rust

\* Values shown are typical



## 2285/2283-2 FILM – PTFE [Extruded, Oriented, High Modulus]

### OVERVIEW

Curbell Specialty Products 2285 and 2283-2 are made of a specially formulated PTFE (polytetrafluoroethylene) film coated with a high-temperature, pressure-sensitive silicone adhesive.

### APPLICATIONS

- Protective surface for extrusion and laminating equipment during the plastic extrusion coating process
- Release surface on form/fill sealing equipment
- Roller wrap tape to protect the exposed ends of neoprene rollers

### FEATURES

- High temperature resistance
- Anti-stick properties
- Abrasion resistant
- Extremely durable
- Leaves no adhesive residue

## PERFORMANCE

PROPERTY	UNITS	2285-2	2285-5	2283-2
Backing Material		Film-PTFE	Film-PTFE	Film-PTFE
Adhesive Type		Silicone	Silicone	High-Temp Acrylic
Total Thickness	inches	.0035	.0065	.0040
Backing Thickness	inches	.0020	.0050	.0020
Adhesive Thickness	inches	.0015	.0015	.0020
Adhesion to Steel	oz/inch	30	40	30
Adhesion to Backing	oz/inch	N/A	N/A	N/A
Elongation	% at break	175	200	150
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°
Break Strength	lbs/in	30	75	30
Dielectric Strength	volts	9000	16000	10000
Color		Orange	Orange	Orange

2285 is available in 2 and 5 mil thicknesses

\* Values shown are typical

## 2815 PTFE COATED GLASS CLOTH TAPE

### OVERVIEW

Curbell Specialty Products 2815 is a fiberglass fabric impregnated with PTFE (Polytetrafluoroethylene) dispersion and coated with a high-temperature, pressure-sensitive silicone adhesive.

### APPLICATIONS

- Release surface in the composite aircraft industry
- Release surface on heat sealers
- Table covers for the handling of hot or sticky candies and pastries

### FEATURES

- Performs in continuous temperatures up to 500°F
- Resistant to tears, punctures, abrasion, and wear
- Dimensionally stable
- Does not cold flow under heavy loads

## PERFORMANCE

PROPERTY	UNITS	2815-3	2815-5	2815-6	2815-10
Backing Material		PTFE Coated Fiberglass Fabric	PTFE Coated Fiberglass Fabric	PTFE Coated Fiberglass Fabric	PTFE Coated Fiberglass Fabric
Adhesive Type		Silicone	Silicone	Silicone	Silicone
Total Thickness	inches	.0050	.0070	.0080	.0110
Backing Thickness	inches	.0030	.0050	.0060	.0090
Adhesive Thickness	inches	.0020	.0020	.0020	.0020
Adhesion to Steel	oz/inch	45	50	55	70
Adhesion to Backing	oz/inch	N/A	N/A	N/A	N/A
Elongation	% at break	<5	<5	<5	<5
Operating Temperature	°F	-100°-500°	-100°-500°	-100°-500°	-100°-500°
Break Strength	lbs/in	N/A	N/A	N/A	N/A
Dielectric Strength	volts	N/A	N/A	N/A	N/A
Color		brown	brown	brown	brown

\* Values shown are typical