

CHEMFAB PTFE COATED FABRICS



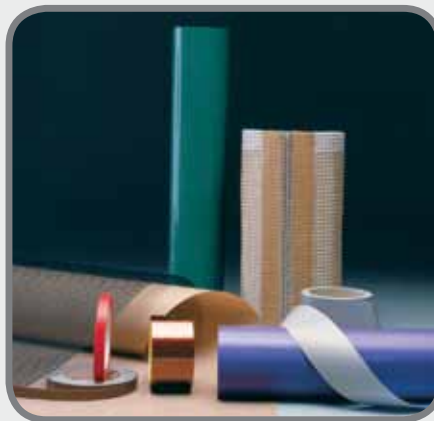
& PROCESS CONVEYOR BELTS

DOTMAR HEATBELTS

HEAT RESISTANT FABRICS & PROCESS CONVEYOR BELTS

Dotmar Heatbelts is the PTFE coated fabric and process conveyor belt manufacturing arm of Dotmar EPP Pty Ltd, Australasia's leading supplier of semi-finished and machined engineering plastic shapes. With 10 branches and an established network of partner re sellers throughout Australia & New Zealand. Dotmar is able to offer unrivalled service and support in this specialised field.

Our extensive range of coated fabrics is sourced from Saint-Gobain Performance Plastics, the largest and most technically advanced manufacturer of fluoropolymer coated fabrics in the world. Their Chemfab® brand name is synonymous with quality and reliability.



Variety of products are available.

PRODUCT RANGE

- **Chemfab®** PTFE Coated Glass Fabrics
- **Chemfab® TCK** PTFE Coated Kevlar® Fabrics
- **Chemfab® TCN** PTFE Coated Nomex® Fabrics
- **Chemlam®** PTFE Laminated Fabric
- **Chemstik®** Pressure Sensitive Adhesive Coated Fabrics & Tapes
- **Chemstik®** Zone and Heatsealer Tapes
- **Chemfab®** High Performance Process Conveyor Belts
- **Chemsil®** Silicone Coated Glass Fabrics
- **Resistawear** Pressure Sensitive UHMWPE Tapes
- **SlipGrip** PTFE one side, silicone on the other side

SPECIALTY RANGE

- **Flueflex®** Fume Extraction & Expansion
- **Q-Guard®** Thermal Insulation Jacket Fabric
- **Chemstik®** SPSA skived PTFE Tape with Silicone Pressure Sensitive Adhesive
- **Chemstik®** EXTRUDED PTFE Tapes with Pressure Sensitive Adhesive
- **Thermal Spray Tapes**

CHEMFAB® PRODUCTS OFFER A COMBINATION OF EXCEPTIONAL FEATURES

- Outstanding Temperature Resistance (-150°C to +260°C)
- Superior Non-Stick Properties even at Extreme Temperatures
- Resistant to most Chemicals and Solvents
- High Dielectric Strength
- Easy to Clean
- Good Dimensional Stability and Flexibility
- Exceptionally Low Friction
- Very Low Electrical Loss

INDUSTRIES...

FOOD

Features

- Non-Stick
- Non-Toxic
- Inert
- Coatings comply with FDA and USDA regulations
- Unaffected by Microwaves
- Easy Clean
- -150°C to + 260°C range
- Non-Stick, Eliminates PVC/PE build-up in bag making
- Improves Product Flow
- Prevents Heat Loss
- Saves Energy

Applications

- Conveyor Belts for Grills
 - Chemlam, Chemlam Ultra Series and Chemlam "F" Series
- Baking Tray Liners
 - Bake-It, Chemfab, Chemlam
- Baking and Cooling Confectionery, Biscuits Tortillas and Pizza Crusts
- Cryogenic Freezing of Produce

PACKAGING

Features

- Non-Stick, Eliminates PVC/PE build-up in bag making
- Improves Product Flow
- Prevents Heat Loss
- Saves Energy

Applications

- Heat-Seal Jaws
 - Chemgfab, Chemstik, Chemstik Zone & Heatsealer Tapes
- Side Wrapper Belts for Packaging Toilet Tissue, Hand Towels
 - Chemlam, Chemlam Silver, Chemgfab TRX
- Tray-Wrappers for Packaging Fresh Meat, Poultry, Vegetables
 - Chemgfab, Chemlam, Chemgfab TRX
- Shrink Wrap Tunnel Belts and Curtains
 - Chemgfab, Chemsil



Side wrapper belts in action.

SCREEN PRINTING

Features

- Highly Resistant to Inks and Dyes
- Low Energy Absorption
- Eliminates Mark-Off
- UV Resistant

Application

- Dryer Belts for all types of Ink and Varnish applications
 - Chemfab 9014, Chemfab 9014 Conductive, Chemfab 8915 and various other Chemfab belting grades



Various uses in the printing industry.

CLOTHING

Features

- Low Friction
- Smooth, Easily Cleaned Surface Eliminates Mark-Off and Protects Finish Quality
- Good Heat Transfer

Applications

- Conveyor Belts for Laminating and Fusing Garments
 - Chemgfab, Chemfab Conductive Grades
- Transfer Printing Platen Press Covers
 - Chemfab



Chemglass 9035 2x2

TEXTILE

Features

- Non-Stick
- Anti-Static
- Heat Resistant
- Smooth Surface
- Easily Cleaned

Applications

- Conveyor Belts for Drying Natural and Synthetic, Knitted, Woven and Non-Woven Textiles
 - Various Chemfab, TCN and TCK Fabrics
- Thermal Bonding
 - Chemfab Conductive Grades
- Covers for Drying Cylinders
 - Chemstik

OTHER TYPICAL APPLICATIONS INCLUDE:

• Floor Covering

Conveyor Belts for Casting and Curing PVC Backed Carpet and Underlay

• Polymer Processing

Resin Impregnation of Fibres

• Aerospace

Release Sheets for Vacuum Bag Moulding, Autoclaves and Platen Presses

• Chemical

Protective Curtains, Gaskets and Membranes

• uPVC Welding

Platen Covers for Welding uPVC Doors and Windows

• Abrasives

Release Layer between Grinding Discs during Curing

• Wire and Cable

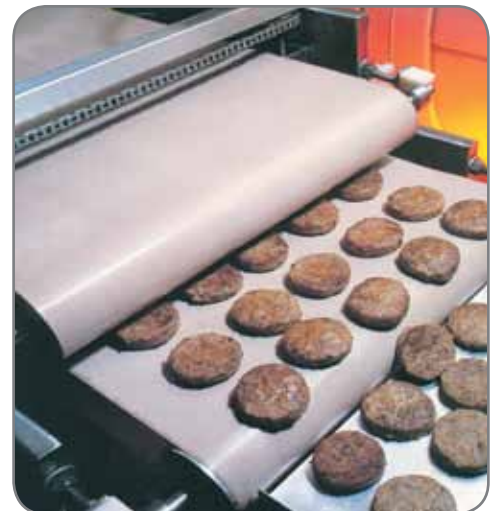
Insulation and Shielding

• Electronics

Cable Insulation, Braiding and Reinforcement. Insulation for Motors, Relays Transformers, Solenoids etc...

• PCB Release Sheets

Conveyor Belts for PCB Ink Drying and Resoldering



CHEMLAM® LAMINATED PTFE GLASS FABRICS

Chemlam laminates are Dotmar's family of flexible, non-porous, PTFE (Teflon®) laminated fabric composites, manufactured by Saint-Gobain Performance Plastics, that combine the features of multi-layer fluoropolymer cast films with the mechanical properties of fibreglass reinforced fabric. These products feature a fully sintered PTFE surface with excellent barrier properties and provide outstanding performance in applications with severe thermal cycling. In the most demanding applications, especially in the food and chemical processing industries, Chemlam products are increasingly replacing traditional PTFE coated fabrics due to superior performance in terms of surface smoothness and release properties, ease of cleaning, chemical resistance and increased productivity.

CHEMLAM® SERIES

The Chemlam range of laminates are designed as an advanced performance alternative to the traditional PTFE-coated fabrics. They are specifically designed for harsh chemical applications with thermal cycling.

Style	Thickness (mm)	Weight (g/m ²)	Colour
Chemlam 4	0.105	190	Brown/Brown
Chemlam 6	0.145	290	Brown/Brown
Chemlam 6 GX PSA	0.150	330	Brown/Brown
Chemlam 10	0.240	455	Brown/Brown

CHEMLAM® ULTRA SERIES

Chemlam Ultra is the trademark for the Chemfab family of multi-plyed, flexible, non-porous fluoropolymer laminated composites that combine exceptional mechanical properties and dimensional stability with extended abrasion and wear properties, resulting in longer life with less maintenance.

Chemlam Ultra 2200	0.180	330	Brown/ Beige
Chemlam Ultra 3300	0.220	424	Brown/ Beige
Chemlam Ultra 3320	0.280	576	Brown/ Beige

CHEMLAM® "F" FOOD SERIES

Chemlam "F" laminates were originally developed for use in food contact applications and are compliant with the US Federal Food, Drug and Cosmetic and applicable food additive regulations. These products are used as bakeware/cooking liners and conveyor belts on contact grilling machines and provide a fat-free cooking surface that retains its non-stick characteristics with all types of food as long as they are regularly cleaned.

Chemlam F910	0.300	590	Black/Brown
Chemlam F916	0.410	900	Black/Brown

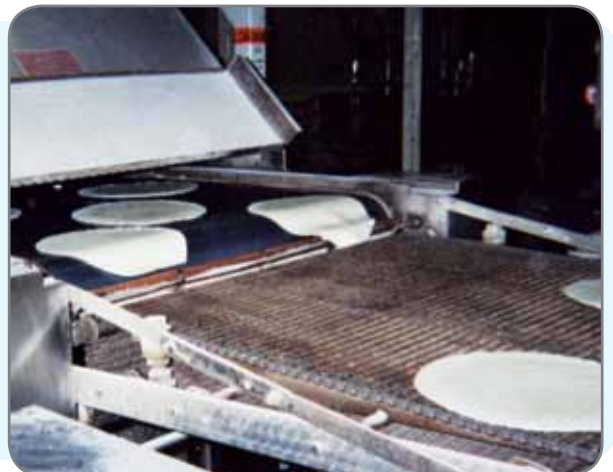
CHEMLAM® SILVER ULTRA SERIES

The Chemlam Silver Ultra Series is Dotmar's best mechanical performing series within our industrial laminated range. The Silver Series features thick gauge multi-layer cast PTFE films with hardened surfaces fused to a multi-ply fabric, resulting in a material with extended abrasion and wear resistance, exceptional mechanical properties and dimensional stability.

Chemlam Silver Ultra 3300	0.225	424	Silver/Black
Chemlam Silver Ultra 3320	0.280	540	Silver/Black

Chemlam, Chemlam "F", Chemlam Ultra and Chemlam Silver Ultra Series are all compliant with the US Federal Food, Drug and Cosmetic Act and applicable food additive regulations, including 21 CFR 177.1550.

Chemlam Laminates are pinhole and crack free giving them better resistance against grease wicking, lower overall permeation and greater wear resistance compared to standard dip-coat products. Uniform PTFE thickness over the texture of the fibreglass fabric reinforcement eliminates thin spots in coating that can cause premature failure. Applications include; Bakeware/cooking liners, conveyor belts on contact grilling machines, polymer processing and traditional applications for PTFE coated fabrics for improved product durability and performance.



Silverlam belt conveying tortillas.

PROPERTIES CHART AND DELIVERY PROGRAM

CHEMFAB® PLAIN PTFE COATED GLASSCLOTH

Continuous operating temperature: -150°C to 260°C

CHEMFAB® PREMIUM SERIES

Style	Thickness (mm)	Weight (g/m ²)	Tensile Strength Warp x Fill (N/cm)	PTFE Content %
03 T PREMIUM	0.085	170	160 x 130	70
05 T PREMIUM	0.135	270	320 x 290	61
06- T PREMIUM	0.160	310	300 x 290	66
110-1 PREMIUM	0.260	555	420 x 390	64
210-2 PREMIUM	0.235	490	510 x 410	59
114-1 PREMIUM	0.360	720	680 x 550	60
214-1 PREMIUM	0.350	680	670 x 530	57

CHEMFAB® INDUSTRIAL SERIES

03 T INDUSTRIAL	0.07	130	160 x 120	61
05 T INDUSTRIAL	0.115	250	280 x 260	58
06 T INDUSTRIAL	0.140	300	260 x 270	66
210-1 INDUSTRIAL	0.235	490	400 x 350	58
14 T INDUSTRIAL	0.310	630	720 x 590	52

CHEMFAB® FLEX & TEAR RESISTANT SERIES

Style	Thickness (mm)	Weight (g/m ²)	Tensile Strength Warp x Fill (N/cm)	PTFE Content %	Tear Strength (N)
05-T TRX PREMIUM	0.125	260	220 x 210	60	35 x 35
10-T TRX PREMIUM	0.260	510	410 x 320	61	70 x 85

CHEMFAB® CONDUCTIVE SERIES

03 T PREMIUM COND	0.08	155	160 x 130	67	
05 T PREMIUM COND	0.130	270	320 x 290	58	
10 T PREMIUM FP COND	0.255	540	430 x 400	62	Fusing Press Series
14 T HCJ COND	0.350	700	690 x 540	58	Fusing Press Series

Standard Roll Width: 1m

Special widths from 1080mm up to 2600mm available for some grades and thicknesses

Slit Widths: A wide variety of standard and custom widths available

Standard Roll Length: 30m

Products are available in roll lengths

30m is standard

15m upon request

CHEMSTIK® PTFE COATED GLASSCLOTH WITH PRESSURE SENSITIVE SILICONE ADHESIVE

Continuous operating temperature: -70°C to 260°C

CHEMSTIK® PREMIUM SERIES

03 T PREMIUM
05 T PREMIUM
06 T PREMIUM
210-2 PREMIUM

CHEMSTIK® INDUSTRIAL SERIES

03 T INDUSTRIAL
05 T INDUSTRIAL
06 T INDUSTRIAL GX
210-1 INDUSTRIAL
14 T INDUSTRIAL

CHEMSTIK® CONDUCTIVE SERIES

05 T PREMIUM COND

CHEMSTIK® SPSA: Skived PTFE Film with Silicone Pressure Sensitive Adhesive One Side

Adhesive thickness = 0.06mm

SPSA-5 T	0.130	280
SPSA-10 T	0.250	540
SPSA-20 T	0.500	1080

Properties: Substrate properties remain the same as for Chemfab.

Adhesive Thickness = 0.045mm

Slit Tapes: Available in a wide range of slit widths with either a yellow liner or self-wound.

Standard Roll Length: 30m

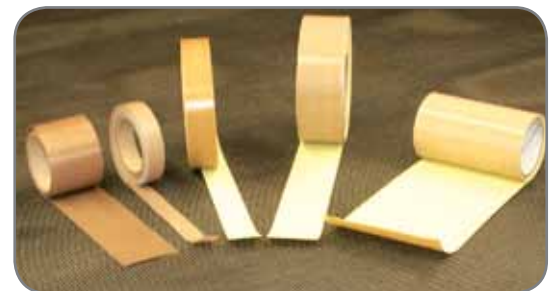
Chemstik Roll Width: 1m maximum width. Full width rolls can be cut to length.

Chemfab EOS (Etched One Side): Treated one side for bonding.

Stock Availability: Most thicknesses.

Zone and Heatsealer Tapes: Manufactured in-house to order.

UV Resistance: All Chemstik PTFE coated glass fabrics employ advanced systems that render the PTFE adhesive bond stable to ultraviolet radiation.



Chemfab & Chemstik slit tapes.

CHEMFAB® BELTING STYLES

CHEMFAB® OPEN WEAVE PLAIN (NATURAL) STYLE

Style	Base Fabric	Mesh Size (mm)	Nominal Thickness (mm)	Nominal Weight (g/m ²)	Tensile Strength Warp & Fill	Temp (Cont °C)	Max Width (mm)	% Open Area
Chemfab 9014	Fibreglass/Fibreglass	4 x 4	0.900	460	500 x 550	260	4420	65
Chemfab 8915	Fibreglass/Fibreglass	1 x 1	0.650	530	760 x 670	260	3150	10
Chemfab 9035	Fibreglass/Fibreglass	2 x 2	0.700	450	350 x 600	260	3000	44
TCK 1590	Kevlar/Kevlar	4 x 4	0.700	265	580 x 700	230	3150	65
TCK 1000	Kevlar/Fibreglass	4 x 4	1.400	625	900 x 900	230	4100	65
TCN 1590	Nomex/Fibreglass	4 x 4	1.600	625	500 x 750	260	4420	65
TCN 2000	Nomex/Fibreglass	4 x 4	2.300	1255	280 x 610	260	3175	48

CHEMFAB® OPEN WEAVE CONDUCTIVE STYLES

Chemfab 9014	Fibreglass/Fibreglass	4 x 4	0.900	460	400 x 450	260	4420	65
Chemfab 8915	Fibreglass/Fibreglass	1 x 1	0.650	530	760 x 670	260	3150	10
Chemfab 9035	Fibreglass/Fibreglass	2 x 2	0.700	450	350 x 600	260	3000	44

CHEMFAB® HEAVY CLOSED WEAVE STYLES

TCK 100-17	Kevlar	~	0.420	650	860 x 1000	230	2800	~
Chemfab 4430	Fibreglass	~	0.670	1015	700 x 1180	260	2450	~
Chemfab 7330	Fibreglass	~	0.780	1015	960 x 880	260	2550	~
Chemfab 8323	Fibreglass	~	0.650	775	670 x 570	260	1575	~

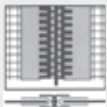
CHEMFAB® FUSING PRESS STYLES

Chemfab 100-10 AS FP	Fibreglass	~	0.250	540	500 x 440	260	2600	~
Chemfab 100-14 AS HCJ	Fibreglass	~	0.345	700	600 x 500	260	2600	~
Chemfab 200-10 EX AS	Fibreglass	~	0.235	500	540 x 500	260	2600	~


The products featured on this page represent the most popular styles available. There are many other Chemfab styles and your local Dotmar representative will be able to assist with your requirements.

CHEMFAB® BELTING FABRICATION TECHNIQUES

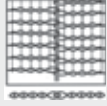
Seam Descriptions Dotmar provides a broad range of seam options suited to the performance specifications of each belting system.



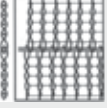
• Alligator® or Clipper® Laced Seam



• Castellated Seam

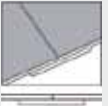


• TCK® 90 Bullnose Seam




• Peek Spiral Seam


Heat-Sealed Splices



• Butt Splice

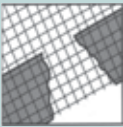


• Overlap Splice




• Half Scarf Splice

Edge Reinforcement



• Hiflex



• Chemglas or TCK

