

Teflon® coated fabrics



Biscor has over 25 years experience of supplying high quality Teflon® coated e-glass fabric to a wide variety of industries and markets. As a market leader in this sector, Biscor have developed the necessary experience and expertise to ensure that the product and service received by our customers is second to none.

If your machinery or industry requires Teflon® coated products that must operate cleanly and economically in extreme environments, then you need Biscor PTFE coated fabrics. Exceptional release properties and dimensional stability at temperature extremes, as well as chemical resistance and cleanability are the properties of our coated fabrics. Whether you need a standard "off the shelf" product or one which is engineered to a specific application or an entirely new product, we can meet your unique challenge.

Biscor is a world leader in the production of differentiated products based in polymer and fluoropolymer technology with our family of quality brands that includes Bisca-Bake, Bisca-Fry, Bisca-Pak, Bisca-Tex and Bisca-Fuse. Biscor offers a wide range of products including silicone coated fabrics, belting, films and tapes.

Our engineered products are used in a variety of industries such as food processing, screen printing, electronics, packaging and industrial equipment amongst many others. Our combined expertise in fabrics, films and coatings gives you confidence in our team approach to providing solutions to critical applications.

- Bisca-Tex range
- Bisca-Tex Open Mesh range
- Bisca-Bake and Bisca-Fry food grade fabrics
- Bisca-Pak range
- Bisca-Fuse range.

Biscor uses Teflon® (PTFE) in the form of water-based (aqueous) dispersion to coat flexible woven, and some non-woven, materials such as glass fibre cloth (usually referred to as glass cloth, or simply "glass"), Nomex®, Kevlar®, and woven wire. These high performance substrates lend the polymer additional dimensional stability and mechanical strength. Only materials which stand the very high processing and application temperatures can be coated.

A variety of techniques can be used in processing to improve the tear strength and resistance to creasing of the finished fabric, provide conductivity (anti-static properties), or resistance to oil and fats.



Teflon® is a registered trademark of DuPont™.

TEFLON® COATED FABRIC FROM BISCOR

Material properties

The properties of the Teflon® coated materials also ensure that the fabric can cope with cooling chambers and freezing temperatures as well as high thermal environments. Other properties include:

- Chemical inertness: Affected only by a few rare substances at very high temperatures
- High release from sticky materials 'non-stick'
- Easy cleaning (nothing bonds permanently)
- Low friction coefficient: 0.04 - 0.10; depending on load and surface speed
- Chemical corrosion and moisture resistance
- Mildew and fungus resistance
- Outstanding electrical, insulative and di-electric properties
- Ultra-violet, Infra-red, microwave, Radio Frequency Resistance
- Non combustible - self extinguishing
- Low thermal expansion: < 5%
- Lightweight and energy efficiency for economical operation.



Fabrication

Biscor fabrics can be cut to size to suit your specific application, consultation with our sales team is advisable to ensure that our products will suit your exacting needs. Our fabrics can be fabricated into belts, die cut shapes and other products at our Bradford based fabrication department.

Splices and edge reinforcements

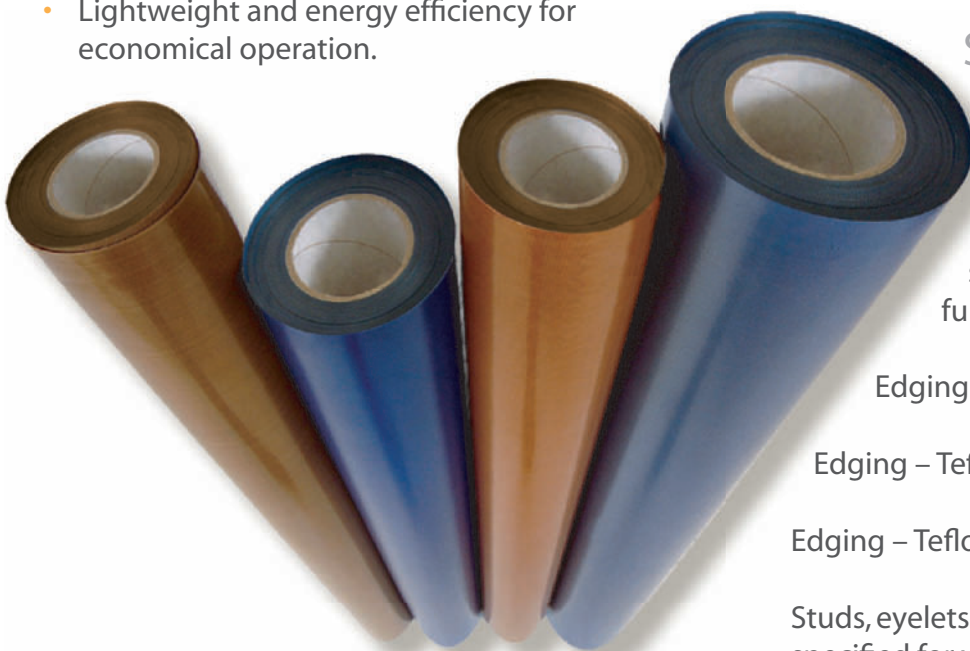
Various splices or joins are available, as well as a variety of edging (please consult our sales team or view our website for further information):

Edging – Teflon® coated Kevlar®

Edging – Teflon® film

Edging – Teflon® coated glass

Studs, eyelets and tracking devices can be specified for your custom fabricated belt.



Range of Teflon® coated fabrics from Biscor

Biscor's Teflon® coated materials are available in a variety of formats and finishes, our experienced team of advisors will ensure that the chosen fabric is the optimum fabric for a specific application.

Bisca-Tex range

Our range includes fabrics used in the fabrication of conveyor belts, including belting materials for use in food processing, packaging and sealing applications as well as in a variety of curing processes.



Bisca-Tex Open Mesh range

Predominantly used in drying applications, the mesh allows air flow through the fabric. Screen printing, textile manufacture and food processing applications often use open mesh materials as engineered products in drying applications.



Bisca-Bake and Bisca-Fry

Food grade materials used in contact grilling and frying of meat, poultry and fish, tortilla and pizza ovens as well as confectionery, biscuits and breads.



Bisca-Pak range

This range is available in adhesive or non-adhesive grades is designed for, but not exclusively used within, the packaging industry.



Bisca-Weld range

Including the market leader Goldweld, our welding fabrics can be purchased in adhesive and non adhesive varieties in a range of thicknesses and weights. Used in PVC-U welding and other plastic welding applications, our welding fabrics are available from stock or can be die cut to suit your machine.



Bisca-Fuse range

The garment and textile industry uses Bisca-Fuse in fusing applications. This material possesses anti static and conductive properties to assist the transportation of material through the application.



Teflon® is a licensed brand name which is granted by DuPont™, it has unique non-stick properties and is resistant to extreme temperatures. Safe in infra-red, ultra-violet and microwave environments, Biscor's materials are suitable for many different applications.

Kevlar® is also a high flex resistant product which will cope in various aggressive and extreme environments. Kevlar® serves as an excellent substrate for PTFE (Teflon®) because of its ability to operate in areas where high temperature steam and water would normally cause glass fabrics to deteriorate over time.

TEFLON® COATED FABRIC FROM BISCOR

Below are a variety of products with associated summary data regarding their properties. You should discuss the requirements for your specific application or purpose with our sales team as we are able to provide non-stock, bespoke products and services.

We provide a 24 hour call out service to our customers as well as advice and guidance every step of the way.

Product range

PTFE COATED GLASS - RELEASE FABRICS

Grade	Thickness (mm)	Coated Weight (g/M2)	Coating %	Max. Width (mm/inch)
Bisca-Pak 3	0.080	150	67	1525 / 60
Bisca-Pak 5	0.109	240	56	1525 / 60
Bisca-Pak 5 Blue	0.109	240	56	1525 / 60
Bisca-Pak 6	0.118	260	59	1525 / 60
Bisca-Weld 6	0.129	280	62	1525 / 60
Goldweld	0.140	350	69	1525 / 60
Bisca-Pak 10	0.209	440	53	1525 / 60
Bisca-Pak 14	0.276	560	45	1525 / 60

PTFE COATED GLASS FABRIC - POROUS FABRICS

Bisca-Tex 07-070	0.070	70	30	1525 / 60
Bisca-Tex 12-200	0.120	200	45	2000 / 79
Bisca-Tex 20-255	0.200	260	21	2000 / 79
Bisca-Tex 34-400	0.340	400	25	2000 / 79

PTFE COATED GLASS - BELTING FABRICS

Bisca-Tex 08-150	0.080	150	67	1525 / 60
Bisca-Tex 13-260	0.130	260	58	2000 / 79
Bisca-Tex 15-300	0.150	300	64	2000 / 79
Bisca-Tex 25-500	0.230	500	61	2000 / 79
Bisca-Tex 26-530	0.260	530	62	2000 / 79
Bisca-Tex 36-600	0.360	600	51	2000 / 79
Bisca-Tex 48-750	0.480	750	44	2000 / 79
Bisca-Tex 84-1099	0.690	1099	45	2500 / 98
Bisca-Tex 180-1875	1.800	1875	52	1000 / 39

Values shown are typical and are subject to change without notice. Before using, the user should determine the suitability of the product for its intended use and assumes all risk and liability in connection therewith. Specifications are subject to change without notice. Weight tolerance g/m2 + or - 5% variation. Teflon® content + or - 2% variation.

To find out more, please contact our sales team to find out more about our Teflon® coated fabrics. We are happy to send samples of our materials or visit you at your offices or factory to discuss how Biscor's products can best suit your application or purpose. We have many stock fabrics, tapes and belts, but we also pride ourselves in our bespoke products.

PTFE COATED GLASS - FOOD PROCESSING

Grade	Thickness (mm)	Coated Weight (g/M2)	Coating %	Max. Width (mm/inch)
Bisca-Bake 3	0.080	150	67	1525 / 60
Bisca-Bake 3 (silver)	0.080	150	67	1525 / 60
Bisca-Bake 10 (copper)	0.250	525	62	2000 / 79
Bisca-Fry 6 (silver)	0.180	380	72	1525 / 60
Bisca-Fry 10 (silver) 28-580	0.270	580	64	2000 / 79

PTFE COATED GLASS FABRIC - CONDUCTIVE

Bisca-Fuse 3 (08-150C)	0.080	150	67	1525 / 60
Bisca-Fuse 5 (13-260C)	0.130	260	58	2000 / 79
Bisca-Fuse 6 (15-300C)	0.150	300	64	2000 / 79
Bisca-Fuse 10 (25-510C)	0.240	510	60	2000 / 79
Bisca-Fuse 14 (37-700C)	0.340	700	58	2000 / 79
Bisca-Fuse 25 (84-1099C)	0.690	1099	43	2500 / 98

PTFE COATED KEVLAR® - ARAMID FABRICS

Bisca-Tex K11-200	0.100	230	73	1000 / 39
Bisca-Tex K16-230	0.160	230	73	1000 / 39
Bisca-Tex K50-600	0.400	600	53	1525 / 60

PTFE COATED KEVLAR® - MESH FABRIC

Bisca-Tex K76-250 -4X4mm	0.760	250	36	2650 / 104
Bisca-Tex K76-250C -4X4mm	0.760	250	36	2650 / 104

PTFE COATED GLASS - MESH FABRIC

Bisca-Tex 64-515 -1X1mm	0.640	515	18	1525 / 60
Bisca-Tex 65-500 -2x2mm	0.700	450	25	3000 / 118
Bisca-Tex 80-950 -2X2mm	0.800	950	30	2000 / 79
Bisca-Tex 76-470 -4X4mm	0.760	470	33	4800 / 189
Bisca-Tex 76-470 Blue -4x4mm	0.760	470	33	4800 / 189

Important note: All statements, technical data and information in Biscor Ltd literature and on the company websites are not binding and were correct and up to date at the time of publication. Modifications and adaptations to comply with changing guidelines and standards can be made without notice. Product properties and characteristics are dependent upon the environment and application in which the product is used. The user shall determine the suitability of the product for their particular purpose and shall assume all risk liability in connection therewith.