

TECHNICAL DATA SHEET

FIBERGLASS REINFORCEMENT of 70 g/m² – BICOtwin

DESCRIPTION

The 70 g/m² fiberglass reinforcement – BICOtwin is produced by lamination process of our fiberglass laid scrim (BICOscrim) on a glass nonwoven.

DESTINATION AND FIELD OF USE

- ✓ The 70 g/m² fiberglass reinforcement – BICOtwin is specially designed for the reinforcement of bituminous and synthetic roofing and waterproofing membranes, used in both industrial and civil buildings.

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	UNIT	MINIMUM VALUE	NOMINAL VALUE
Appearance of fiberglass reinforcement			without visible physical defects
Total weight	g/m ²	65	70
Glass veil weight	g/m ²		35
Coating type			SBR / Acrylic
Total L.O.I	%		20
Yarn Type MD / CMD	tex		68 / 68
Density of fiberglass scrim MD / CMD	fibers/10cm		18 / 18 ±1
Dimensions – material width	mm		1000 – 2200 ±1%
Dimensions – material length	m	1600 ±1%	3000 ±1%
Dimensions – roll diameter	mm	800	1200
Dimensions – cardboard core diameter	mm		152,6
Tensile strength under normal storage conditions - MD	N/5 cm	450 ±1%	500 ±1%
Tensile strength under normal storage conditions - CMD	N/5 cm	450 ±1%	500 ±1%
Elongation at break under normal storage conditions - MD	% min.		4
Elongation at break under normal storage conditions - CMD	% min.		3,5
Thickness	mm		0,57

*MD = Machine Direction; CMD = Cross Machine Direction;

PROPERTIES

- ✓ High dimensional stability (*guarantees the same tensile strength both on machine direction and cross machine direction*);
- ✓ High resistance to delamination;
- ✓ **Fiberglass reinforcement – BICotwin** substantially improves the mechanical strength of the finished product in which it is integrated;
- ✓ Increases puncture resistance;
- ✓ Alkali resistant;
- ✓ Excellent flatness that allows a uniform impregnation in the rolling process;
- ✓ Root-proof and UV resistant;
- ✓ Chemically inert and non-toxic.

CERTIFICATIONS

The manufacturer **S.C. BICO INDUSTRIES S.A.** has implemented an integrated management system: quality, environment, occupational health and safety, according to **ISO 9001, ISO 14001 and SR OHSAS 18001 - AEROQ** certificates.

CLASSIFICATION ACCORDING TO CHEMICAL REGULATIONS. POSSIBLE RISKS, PREVENTION REQUIREMENTS

Fiberglass reinforcement does not require marking and is not a dangerous product.

According to Regulation (EC) no. 1907/2006 of the European Parliament and of the Council, fiberglass reinforcement does not require a safety data sheet.

SPECIFIC CONDITIONS, STORAGE, TRANSPORTATION

- ✓ **Specific conditions:** the storage should be organized in clean and dry places, at temperatures between 5°C and 30°C, protected for direct radiation of any source of heat or by the direct action of sunlight;
- ✓ **Storage:** it should be stored in rolls positioned vertically, in suitable and covered places;
- ✓ **Transportation:** it should be organized in rolls, positioned vertically on pallets, with suitable and covered trucks.

TECHNICAL DATA SHEET

FIBERGLASS REINFORCEMENT of 75 g/m² – BICOtwin

DESCRIPTION

The 75 g/m² fiberglass reinforcement – BICOtwin is produced by lamination process of our fiberglass laid scrim (BICOscrim) on a glass nonwoven.

DESTINATION AND FIELD OF USE

- ✓ The 75 g/m² fiberglass reinforcement – BICOtwin is specially designed for the reinforcement of bituminous and synthetic roofing and waterproofing membranes, used in both industrial and civil buildings.

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	UNIT	MINIMUM VALUE	NOMINAL VALUE
Appearance of fiberglass reinforcement			without visible physical defects
Total weight	g/m ²	70	75
Glass veil weight	g/m ²		35
Coating type			SBR / Acrylic
Total L.O.I	%		20
Yarn Type	tex		68 / 68
- MD / CMD			
Density of fiberglass BICOscrim	yarns/10cm		20 / 20 ±1
MD / CMD			
Dimensions – material width	mm		1000 – 2200 ±1%
Dimensions – material length	m	1600 ±1%	2800 ±1%
Dimensions – roll diameter	mm	800	1200
Dimensions – cardboard core diameter	mm		152,6
Tensile strength under normal storage conditions	N/5 cm	450 ±1%	500 ±1%
- MD			
Tensile strength under normal storage conditions	N/5 cm	450 ±1%	500 ±1%
- CMD			
Elongation at break under normal storage conditions	% min.		4
- MD			
Elongation at break under normal storage conditions	% min.		3,5
- CMD			
Thickness	mm		0,57

*MD = Machine Direction; CMD = Cross Machine Direction;

PROPERTIES

- ✓ High dimensional stability (*guarantees the same tensile strength both on machine direction and cross machine direction*);
- ✓ High resistance to delamination;
- ✓ **Fiberglass reinforcement – BICotwin** substantially improves the mechanical strength of the finished product in which it is integrated;
- ✓ Increases puncture resistance;
- ✓ Alkali resistant;
- ✓ Excellent flatness that allows a uniform impregnation in the rolling process;
- ✓ Root-proof and UV resistant;
- ✓ Chemically inert and non-toxic.

CERTIFICATIONS

The manufacturer **S.C. BICO INDUSTRIES S.A.** has implemented an integrated management system: quality, environment, occupational health and safety, according to **ISO 9001, ISO 14001 and SR OHSAS 18001 - AEROQ** certificates.

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- ✓ **Storage:** it should be stored in rolls positioned vertically, in suitable and covered places;
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TECHNICAL DATA SHEET

FIBERGLASS REINFORCEMENT 80 g/m² – BICOtwin

DESCRIPTION

The 80 g/m² fiberglass reinforcement – BICOtwin is produced by lamination process of our fiberglass laid scrim (BICOscrim) on a glass nonwoven.

DESTINATION AND FIELD OF USE

- ✓ The 80 g/m² fiberglass reinforcement – BICOtwin is specially designed for the reinforcement of bituminous and synthetic roofing and waterproofing membranes, used in both industrial and civil buildings.

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	UNIT	MINIMUM VALUE	NOMINAL VALUE
Appearance of fiberglass reinforcement			without visible physical defects
Total weight	g/m ²	75	80
Glass veil weight	g/m ²		35
Coating type			SBR / Acrylic
Total L.O.I	%		20
Yarn Type	tex		68 / 68
- MD / CMD			
Density of fiberglass BICOscrim	yarns/10cm		22 / 22 ±1
MD / CMD			
Dimensions – material width	mm		1000 – 2200 ±1%
Dimensions – material length	m	1600 ±1%	2800 ±1%
Dimensions – roll diameter	mm	800	1200
Dimensions – cardboard core diameter	mm		152,6
Tensile strength under normal storage conditions	N/5 cm	550 ±1%	600 ±1%
- MD			
Tensile strength under normal storage conditions	N/5 cm	550 ±1%	600 ±1%
- CMD			
Elongation at break under normal storage conditions	% min.		4
- MD			
Elongation at break under normal storage conditions	% min.		3,5
- CMD			
Thickness	mm		0,57

*MD = Machine Direction; CMD = Cross Machine Direction;

PROPERTIES

- ✓ High dimensional stability (*guarantees the same tensile strength both on machine direction and cross machine direction*);
- ✓ High resistance to delamination;
- ✓ **Fiberglass reinforcement – BICotwin** substantially improves the mechanical strength of the finished product in which it is integrated;
- ✓ Increases puncture resistance;
- ✓ Alkali resistant;
- ✓ Excellent flatness that allows a uniform impregnation in the rolling process;
- ✓ Root-proof and UV resistant;
- ✓ Chemically inert and non-toxic.

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TECHNICAL DATA SHEET

FIBERGLASS REINFORCEMENT 85 g/m² – BICOtwin

DESCRIPTION

The 85 g/m² fiberglass reinforcement – BICOtwin is produced by lamination process of our fiberglass laid scrim (BICOscrim) on a glass nonwoven.

DESTINATION AND FIELD OF USE

- ✓ The 85 g/m² fiberglass reinforcement – BICOtwin is specially designed for the reinforcement of bituminous and synthetic roofing and waterproofing membranes, used in both industrial and civil buildings.

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	UNIT	MINIMUM VALUE	NOMINAL VALUE
Appearance of fiberglass reinforcement			without visible physical defects
Total weight	g/m ²	80	85
Glass veil weight	g/m ²		35
Coating type			SBR / Acrylic
Total L.O.I	%		20
Yarn Type	tex		68 / 68
- MD / CMD			
Density of fiberglass BICOscrim	yarns/10cm		25 / 25 ±1
MD / CMD			
Dimensions – material width	mm		1000 – 2200 ±1%
Dimensions – material length	m	1600 ±1%	2500 ±1%
Dimensions – roll diameter	mm	800	1200
Dimensions – cardboard core diameter	mm		152,6
Tensile strength under normal storage conditions	N/5 cm	600 ±1%	650 ±1%
- MD			
Tensile strength under normal storage conditions	N/5 cm	600 ±1%	650 ±1%
- CMD			
Elongation at break under normal storage conditions	% min.		4
- MD			
Elongation at break under normal storage conditions	% min.		3,5
- CMD			
Thickness	mm		0,57

*MD = Machine Direction; CMD = Cross Machine Direction;

PROPERTIES

- ✓ High dimensional stability (*guarantees the same tensile strength both on machine direction and cross machine direction*);
- ✓ High resistance to delamination;
- ✓ **Fiberglass reinforcement – BICOtwin** substantially improves the mechanical strength of the finished product in which it is integrated;
- ✓ Increases puncture resistance;
- ✓ Alkali resistant;
- ✓ Excellent flatness that allows a uniform impregnation in the rolling process;
- ✓ Root-proof and UV resistant;
- ✓ Chemically inert and non-toxic.

CERTIFICATIONS

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TECHNICAL DATA SHEET

FIBERGLASS REINFORCEMENT 90 g/m² – BICOtwin

DESCRIPTION

The 70 g/m² fiberglass reinforcement – BICOtwin is produced by lamination process of our fiberglass laid scrim (BICOscrim) on a glass nonwoven.

DESTINATION AND FIELD OF USE

- ✓ The 70 g/m² fiberglass reinforcement – BICOtwin is specially designed for the reinforcement of bituminous and synthetic roofing and waterproofing membranes, used in both industrial and civil buildings.

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	UNIT	MINIMUM VALUE	NOMINAL VALUE
Appearance of fiberglass reinforcement			without visible physical defects
Total weight	g/m ²	85	90
Glass veil weight	g/m ²		35
Coating type			SBR / Acrylic
Total L.O.I	%		20
Yarn Type	tex		68 / 68
- MD / CMD			
Density of fiberglass BICOscrim	yarns/10cm		30 / 30 ±1
MD / CMD			
Dimensions – material width	mm		1000 – 2200 ±1%
Dimensions – material length	m	1400 ±1%	2300 ±1%
Dimensions – roll diameter	mm	800	1200
Dimensions – cardboard core diameter	mm		152,6
Tensile strength under normal storage conditions	N/5 cm	850 ±1%	900 ±1%
- MD			
Tensile strength under normal storage conditions	N/5 cm	850 ±1%	900 ±1%
- CMD			
Elongation at break under normal storage conditions	% min.		4
- MD			
Elongation at break under normal storage conditions	% min.		3,5
- CMD			
Thickness	mm		0,62

*MD = Machine Direction; CMD = Cross Machine Direction;

PROPERTIES

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- ✓ High dimensional stability (*guarantees the same tensile strength both on machine direction and cross machine direction*);
- ✓ High resistance to delamination;
- ✓ **Fiberglass reinforcement – BICOtwin** substantially improves the mechanical strength of the finished product in which it is integrated;
- ✓ Increases puncture resistance;
- ✓ Alkali resistant;
- ✓ Excellent flatness that allows a uniform impregnation in the rolling process;
- ✓ Root-proof and UV resistant;
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- ✓ **Transportation:** it should be organized in rolls, positioned vertically on pallets, with suitable and covered trucks.

TECHNICAL DATA SHEET

FIBERGLASS REINFORCEMENT 120 g/m² – BICOtwin

DESCRIPTION

The 120 g/m² fiberglass reinforcement – BICOtwin is produced by lamination process of our fiberglass laid scrim (BICOscrim) on a glass nonwoven.

DESTINATION AND FIELD OF USE

- ✓ The 120 g/m² fiberglass reinforcement – BICOtwin is specially designed for the reinforcement of bituminous and synthetic roofing and waterproofing membranes, used in both industrial and civil buildings.

TECHNICAL CHARACTERISTICS

CHARACTERISTICS	UNIT	MINIMUM VALUE	NOMINAL VALUE
Appearance of fiberglass reinforcement			without visible physical defects
Total weight	g/m ²	108	120
Glass veil weight	g/m ²		50
Coating type			SBR / Acrylic
Total L.O.I	%		20
Yarn Type	tex		68 / 68
- MD / CMD			
Density of fiberglass BICOscrim	yarns/10 cm		35 / 30 ±1
MD / CMD			
Dimensions – material width	mm		1000 – 2200 ±1%
Dimensions – material length	m	1600 ±1%	2300 ±1%
Dimensions – roll diameter	mm	800	1200
Dimensions – cardboard core diameter	mm		152,6
Tensile strength under normal storage conditions	N/5 cm	900 ±1%	1000 ±1%
- MD			
Tensile strength under normal storage conditions	N/5 cm	850 ±1%	1000 ±1%
- CMD			
Elongation at break under normal storage conditions	% min.		4
- MD			
Elongation at break under normal storage conditions	% min.		3,5
- CMD			
Thickness	mm		0,67

*MD = Machine Direction; CMD = Cross Machine Direction;

PROPERTIES

SC BICO Industries SA
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- ✓ High dimensional stability (*guarantees the same tensile strength both on machine direction and cross machine direction*);
- ✓ High resistance to delamination;
- ✓ **Fiberglass reinforcement – BICOtwin** substantially improves the mechanical strength of the finished product in which it is integrated;
- ✓ Increases puncture resistance;
- ✓ Alkali resistant;
- ✓ Excellent flatness that allows a uniform impregnation in the rolling process;
- ✓ Root-proof and UV resistant;
- ✓ Chemically inert and non-toxic.

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