

Product information

Fibertex Compoflex®

for Pre-preg and Hand Lay-up - replaces 3 products by 1 – saves time and money

Description

Material: **Compoflex®** exists of 100% polypropylene that produces exclusively CO, Co2 and water in case of fire.

What's Compoflex®: Compoflex-products are breathable micro-porous formwork materials. Those are developed to replace commodities in composite production. **Compoflex®** offers direct advantages in production process.

Excellent peeling-characteristics: The micro-porose surface and the low surface tension of **Compoflex®** makes sure, that it compares with common products only 1/5 power is required to «peel» Compoflex.

Time- and cost savings Dependent from production process **Compoflex®** can replace even three commodities. Tear-off fabric, gap film and store nonwoven. Due to less commodities and an uncomplicated delamination costs and working time can be reduced, the process becomes much easier and a higher production output per form can be achieved.

Constant aeration The unsystematic micro-porose perforation cares for equal aeration and so for more stable and lighter laminates. Moreover an overlap is possible without any influence on the laminate quality.

Easy peeling minimizes dust **Compoflex®** is easily to «peel». Rests of the bonded synthetic resin mainly remain in Compoflex. So air pollution is reduced essentially compared with usual processes. **Compoflex®** so creates more healthy working conditions.

Excellente secondary bonding surface **Compoflex® SB** makes a surface where one can laminate and/or glue further very well. The excellent separating characteristics of the Compoflex® standard products here obviously are preserved. Compoflex® SB is deliverable in 3 versions for prepreg (pre impregnation) and hand lay-up (hand lamination).

Certification: Certified according to quality management system EN ISO 9001 and also environmental management system EN ISO 14001. Compoflex is produced corresponding to the latest European technical environmental regulations.

Technical data - Compoflex®:

Characteristics	size	150	SB 150	250	SB 250	400	SB 400
Colour		white	white	white	white	white	white
Thickness by 2 kPa	mm	0.6	0.6	1	1	1.5	1.5
Max. width	m	4.5	2.1	4.5	2.1	4.5	2.1
Resin capacity	cm ³ /m ²	305	305	810	810	1135	1135
Easy Peeling		x	x	x	x	x	x
corr. to gap film, with aver. admission		x		x		x	
corr. to gap film, with less to aver. admission			x		x		x
Store nonwoven	g/m ²	50	50	150	150	300	300
generates a smooth surface		x		x		x	
generates a rough surfaced			x		x		x
Hardening at low pressure		x	x	x	x		
Hardening at verage pressure						x	x
Tear strength (length/cross)	N	170/100	170/100	305/195	305/195	460/275	460/275
Use- recommendation		Pre-preg	Pre-preg	Pre-preg	Pre-preg	Hand Lay-up	Hand Lay-up

General Information:

Composition: 100% PP besides RF-products with PET (net)

Resin: Very suitable for polyester-, vinylester-, epoxy- and phenol resin and other resin types. A previous suitability test is recommended

Pre-surface treatment: **Compoflex® SB** products eventually redundantize to grind or to sand before. Optimum results will be achieved with epoxy resins. A previous suitability test is recommended

Working-temperature: The recommended working temperature is 144°C. The melting point for polypropylene is 165°C. But Compoflex® can be used to 200°C because Compoflex® working already happens before the temperature exceeds the melting point. After cooling the material becomes hard again. Then separating is possible very easily again. It's recommended to make a test with a small part first.

For specific information, how **Compoflex®** can optimize your production times and –costs, our technical service is at your disposal at any time!

Product information

Fibertex Compoflex®

for vacuum-infusion

Description

What's Compoflex®:

Compoflex-products are breathable, micro-porose formwork materials. Those are developed to replace up to three commodities in composite production by one product.

Compoflex® offers several advantages in production process.

Excellent peeling-characteristics:

The mirco-porose surface and the low surface tension of PP-nonwovens makes sure that compared with common tear-off fabrics for **Compoflex®** only 1/5 power is required to peel the material.

Compoflex® can stay on the laminate for several days without effecting the good separation characteristics.

Controlled flow front:

Especially for very dense and compact laminates a controlled flow front is important. The unsystematic micro-porose perforation cares for complete impregnation of the laminate without dry areas. Moreover an overlap is possible without any influence on the laminate quality.

It has to be considered that for a controlled flow front eventually a modification of the technical installation becomes necessary (more and / or bigger valves depending on laminate size and –thickness).

Problem-free separating without resin dust

Compoflex® is easily to peel. Rests of the bonded synthetic resin mainly remain in Compoflex. Therefore, air pollution by resin dust is reduced essentially. **Compoflex®** so creates more healthy working conditions

Time- and cost savings – less time in the form

Compoflex® RF replaces 3 layers: Tear-off fabric, gap film and flow support. Due to less commodities and an uncomplicated separation the costs and the working time can be reduced, the process becomes much easier and a higher production output per form can be achieved.

Excellent secondary bonding surface

Compoflex® SB creates a surface where one can laminate and/or glue further very well. The excellent separating characteristics of the **Compoflex®** standard product here obviously are preserved.

Technical data - Compoflex®

Characteristics	size	150	SB 150	RF 150	SBRF 150	RF3 150	SBRF3 150
Colour		white	white	white	white	yellow	yellow
Thickness by 2 kPa	mm	0.6	0.6	0.9	0.9	1.4	1.4
Max. width	m	4.5	2.1	2.3	2.1	2.3	2.1
Resin capacity	cm ³ /m ²	305	305	530	530	580	580
Weight of flow support	g			100	100	165	165
Easy peeling		x	x	x	x	x	x
corr. to gap film with aver. admission		x		x		x	
corr. to gap film with less to average admission			x		x		x
integrated flow support				x	x	x	x
generates a smooth surface		x		x		x	
generates a rough surface			x		x		x

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For specific information, how **Compoflex®** can optimize your production times and –costs, our technical service is at your disposal at any time!