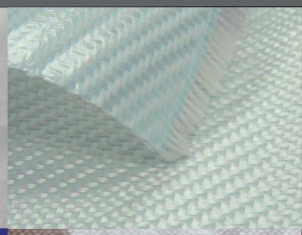
SEMIPREG

Prepreg is well known as pre-impregnated fabric for laminate parts production. We developed our own alternative, which keeps all advantages of prepregs and adds new ones.



SEMIPREG = fabric impregnated from one side by foil resin

■ SOLVENT FREE TECHNOLOGY

in comparison with prepregs our semipregs represent zero contents of volatile compounds. Due this characteristic no volatile compounds are released during final part preparation and curing!

■ SPEED UP YOUR PRODUCTION

in comparison with liquid resin you can produce 3x faster!

■ GREAT VARIABILITY IN STRUCTURE OF COMPOSITION

fabric: glass, carbon, aramid, hybrid

resin: epoxy foil resins. Product range covers resin with great mechanical characteristics (mainly impact strength), resin with extra high temperature resistance (250°C), resin developed for impregnation of carbon or aramid fabric or resins fulfilling aircraft standard FAR 23 and FAR 25.

■ CONSULTANCY

if you know characteristics of the final part, we will suggest you optimal composition

■ CUSTOMER MADE

in view of great variability we can offer you the right semipreg for many various types of applications. Suitable for production of large volume or for production of small quantities too

CURING

Curing cycle comes from characteristics of foil resin. The most common curing process is 60 minutes at 120 °C.
For production without high temperature it is possible to use foil resin with curing process 240 min. at 80 °C.

APPLICATION

cover plate of sandwich structures (panels)
tube shapes
sport equipment
health tools
laminate parts with glossy surface

Development ■ Production ■ Sales ■ Consultancy

5M s.r.o.
Na Záhonech 1177
686 04 Kunovice
Czech Republic

tel.: +420 572 433 711
fax: +420 572 433 700
e-mail: 5M@5M.cz
www.5M.cz

Certificated ISO 9001:2001

LETOXIT® Foil Technology (LF Technology)

Letoxit®

Resin	Resin type	Density (g/cm³)	Typical curing temperature (°C)	Typical curing time (min)	Peak at 120°C (min)	Tg cured 60 min at 120°C (°C)	Max. Tg (°C)	Characteristics
LFX 023	Epoxy	1,19	120	60	4.65	95	100	Basic type
LFX 035	Epoxy	1,19	120	60	5,5	122	125	Low viscosity (carbon)
LFX 038	Halogenated epoxy	1,39	120	60	10.5	127	135	Self extinguishing (FAR 23)
LFX 040	Modified cyanoester	1,21	180	180	2.3*	190*	250	High Tg
LFX 044	Modified epoxy	1,14	120	60	8,5	95	105	High impact strength
LFX 054	Epoxy	1,15	120	60	10,2	130	155	Higher Tg, low viscosity
LFX 055	Epoxy	1,15	120	60	10	130	155	Higher Tg, low stickiness
LFX 056	Epoxy	1,35	120	60	6	120	125	Self extinguishing (FAR 25)
LFX 060	Epoxy	1,19	80	240	4	120	125	Curing at 80°C, low viscosity (carbon)
LFX 062	Phenolic	1,19	120	45	9,4	80	103	Self extinguishing (DIN 5510-2)
LFX 162	Epoxy	1,28	80	240	3,7	95	100	Curing at 80°C, higher stickiness

*Cured 3h at 140°C, post-cured 4h at 200°C+ 4h at 250°C

turn page

5M s.r.o.
Na Záhonech 1177
686 04 Kunovice
Czech Republic

tel.: +420 572 433 711
fax: +420 572 433 700
e-mail: 5M@5M.cz
www.5M.cz

Certificated ISO 9001:2001