

NEW 2004
Resin and infusion
process

UNIVERSAL COMPOSITES

by
AXSON

TOOLING

Axson provide a global offer with a variety of high performance products for top of the range composite tooling to make unique parts or limited series.

The use of epoxy resin based materials (liquid, solid, paste) combined with highly performing fabrics allows:

- Perfect dimensional stability.
- High temperature performance.
- Precise parts.
- Simple process
- Prepregs quality level without costly equipment

Epoxy resin infusion is a compromise between usual and easy hand lay up processes and preimpregnated materials performances. Axson launches a ready to use range made of resins, hardeners, relevant fabrics and peripherals designed for infusion processes.

MODEL/MASTER MODEL

Ref.	Description	Main features	Applications
LAB 973	Epoxy machinable board New	Easy NC machining, high dimensional stability, temperature resistance.	Tools for low temperature preimpregnated (oven or vacuum).
SC 300	Epoxy extrudable paste	High mechanical resistance, high dimensional stability, temperature resistance, all backups and preshapes.	Low temperature preimpregnated tooling.
SC 165	Extudable epoxy paste	Application on any backup.	Large dimension tools for infusion or other.

TOOLING RESINS AND GELCOATS

Ref.	Description	Main features	Applications
EPOLAM 2010	Laminating epoxy resin	Multifunction epoxy system, no foaming, low modulus, three hardeners available for different reactivities.	Moulds 50°C. Resin concrete.
EPOLAM 2025 EPOLAM 2050 EPOLAM 2080	Laminating epoxy resins	Good mechanical properties, thermal resistance, excellent wetting ability, high chemical resistance.	Tools requiring thermal resistance, laminated tools, resin concrete, moulds for preimpregnated.
EPOLAM 2035 /2025 EPOLAM 2080 /2025	Infusion epoxy resin	Perfect wetability and viscosity	RTM moulds, moulds for preimpregnated 120°C, 180°C.
GC1 080 GC1 050 GC1 180 GC2 120	Epoxy Gelcoats	Broad range of application with different hardness, colours, and thermal resistance, sandable (GC1). Abrasion and thermal resistance (GC2). Good chemical resistance	Laminated tools, RTM tools, injection moulds, PU foam moulds.

REINFORCEMENTS

Ref.	Description	Main features	Applications
VERRANNE	Tooling fabric	Chopped fiberglass, no gelcoat marking, good plasticity. 100 and 900 gr/m ² available.	Laminated tools.
ROVING	Tooling fabric	Fiberglass E or carbon, high mechanical properties.	Laminated tools.
Multiaxial fabrics		Excellent horizontal and vertical permeability, allows infusion process optimization, complementary to glass and carbon fabric range.	Infused composite parts for reinforcements
EPOPAST 200/400	Laminating paste	Easy mixing, fast processing, low shrinkage, dimensional stability, fast thickness shaping.	Negative, laminated tools.
HX 42	Low temperature tooling preimpregnated.	Easy processing, dimensional stability, temperature resistance: 200°C.	High performance composite parts and tools.

PERIPHERALS/ACCESSORIES

Honeycomb panels: Sandwich for structure, reinforcement, partition walls...
 Infusion accessories: Glass or carbon multiaxial fabrics. Self-release vacuum bag, vacuum accessories, peel ply and infusion net

ASSEMBLY

Structural adhesives: ADEKIT A 140/170/220/A 252/310NF/H 9951...

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