

High Performance Composites

by **Axson**
TECHNOLOGIES

MOULD MAKING

*Make your mould
with the most efficient
Axson techniques*

AXSON TECHNOLOGIES has developed a large range of epoxy resins meeting the increasing needs of exact mould construction, for a one single part to production lines using sophisticated process producing thousands.

All resin materials are compatible with the latest technical fabrics and customer specifications while focusing on:

- Specific process adapted viscosities
- High temperature resistance
- High mechanical values
- Easy set up and process
- Cost efficiency

AXSON TECHNOLOGIES offers these benefits to the most demanding industries as Automotive, Aerospace, Marine and Windmill fields of activities.



ISO 9001



ISO 14001

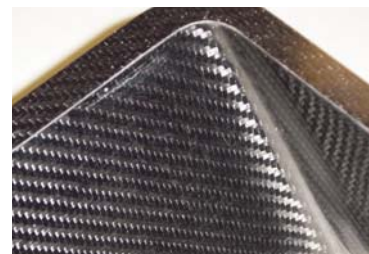


Laminating epoxy resin - High temperature resistance

	Application	Density	Tg (°C)	Pot life (mn)	Viscosity (mPa.s)
WET LAY UP					
EPOLAM 2025	Good mechanical properties. Can be used for moulds up to 135°C after curing.	1.12	135	1h10'	1400
EPOLAM 2050	Composite moulds by wet lay-up (contact, vacuum bagging). Used in concrete by addition of aluminium or other fillers.	1.12	125	60'	2000
EPOLAM 2080	Production of composite moulds by the usual impregnation methods (contact, vacuum bagging). Used in concrete by addition of aluminium fillers or other ones.	1.12	190	150'	2000
INFUSION					
EPOLAM 2031/2031 2031/2032	Infusion of epoxy system designed for the infusion of large composite tools.	1.12	135	110' 200'	350 550
EPOLAM 2092	Composites tool. Moulds for preregs. Vacuum forming moulds. High temperature resistance. Low toxicity.	1.14	220	500 g: 320'	400

Glass or carbon prepreg

		Initial cure (°C)	Post cure	Work life at 20°C	Tg (°C)
HX 42	Low temperature glass or carbon tooling preregs. Easy processing, high strength and stability. AMBERCOMPOSITES	50	16h cycle for Tg max	5 days	210
HX 32		60		30 days	150

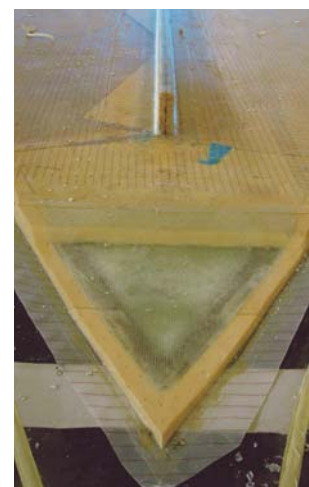


Gelcoat epoxy

		Density	Tg (°C)	Pot life (mn)	Hardness (shore)
GC1 080	High chemical resistance. Easy to apply. RTM polyester resin injection moulds.	1.74	85	20'	89D
GC1 150	High chemical resistance, very good glossing characteristics. Polyester and epoxy RTM injection. Polyurethane foam RIM Injection.	1.25	124-150	27'	87D
GC2 120	Filled, abrasion resistant epoxy gelcoat. Resistant to temperatures up to 120°C. Moulds for polyester RTM/epoxy.	1.48	120	18'	89D

Production material

		Elongation at break %	Demoulding time (min)	Pot life (mn)	Hardness (shore)
Gelcoat					
APG 1750	Polyester gelcoat. Styren free. Resistant to high temperatures.	1.30	-	22	87D
Sprayable silicone					
SVB 20	Production of flexible membranes for vacuum bagging.	500	15'	3	20 A
Repair materials					
APF 7	Quick setting polyester putty styren free. High temperature resistance 180°C. Boeing approved.	1.69	30'	4-7	89D



Photographies: Axson, Amber Composites, Tout le monde sur l'eau, Duqueine, fotolia - Design : www.crec-laure.com

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More information and downloads available on the Website: www.axson.com