

Composite Process Developments offered by AAC

The composite laboratory at AAC offers different composite manufacturing processes like lay-up with vacuum bag, liquid infusion with resin flow medium process, resin transfer molding (RTM), vacuum assisted resin transfer molding (VARTM), warm press and filament winding.

In addition, AAC offer improvement or modification of resin systems to introduce further functions like wear resistance, electrical conductivity, low shrinkage, impact resistance, lower permeability, UV protection, transparency, higher surface protection, flame retardancy or anti-ice capability.

The following composite processing facilities are available at AAC

Composite processing facilities at AAC	
Injection system	Tartler, up to 130°C, maximal pressure 60 bars, maximal injection rate 0.5L/min
RTM mold	Plastech solid mould, up to 180°C curing cycle, 40cm x 40cm
Vacuum techniques	Pumps, bags, SCRIMP, peel plies, breathers, breeders, release agents
Warm press	Saspol press up to 160 Tons, 40cm x 40cm
Desktop Filament Winder	X-Winder: 4-Axis Model 4X-23: max length: 2m, max. diameter 200 mm
Powder preparation	Wetting agent, surfactants, ball milling, ultra turrax, centrifuges