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The component is built up in a mould by applying several layers of reinforcement and wet resin, which is distributed by a roller, until the desired thickness is achieved. The resin is then cured, using applied heat if necessary, to produce the finished component.

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Carbon fibre composites offer a perfect combination of high specific tensile strength and low weight. As lightweighting requirements gather pace across sectors, carbon fibre is being used more extensively to replace metal parts.

There are three types of composite manufacturing processes: open molding, closed molding and cast polymer molding. There are a variety of processing methods within these molding categories, each with its own benefits.

Composite material - Wikipedia

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The composites manufacturing research theme is based on activities in areas of: Liquid moulding technologies for out-of-autoclave manufacturing processes Automation of manufacturing processes to reduce touch labour Processes with reduced cycle time for high volume manufacturing

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How are composites manufactured? - TWI

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components

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Composite Manufacturing The manipulation of fibre architecture is key to producing an optimal component with tailored composite component performance.

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