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composite materials purpose history uses and characteristics

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how are composite materials used in manufacturing composites are widely implemented in various products and tools used in manufacturing epoxy based composite materials are used to create molds and tooling which are lightweight and can be converted or customized to fit the desired shape of the manufacturer

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this is an overview of common composite manufacturing methods open molding bagged wet layup resin infusion lrtm rtm pre pregs pultrusion filament winding compression molding atl afp and 3d printing whew

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composite materials are engineered combinations of two or more distinct materials merging their individual properties to create a new material with enhanced characteristics

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there are numerous methods for fabricating composite components selection of a method for a particular part therefore will depend on the materials the part design and end use or application here s a guide to selection wind energy sustainability automotive sheet molding compound pultrusion defense out of autoclave workforce development

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a composite material also called a composition material or shortened to composite which is the common name is a material which is produced from two or more constituent materials these constituent materials have notably dissimilar chemical or physical properties and are merged to create a material with properties unlike the individual elements

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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 open molding composite materials resin and fibers are placed in an open mold where they cure or harden while exposed to the air

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