

Technical Data Sheet

SUMMARY

GlassFibre-reinforced plastic (GRP) (also *glassfibre-reinforced polymer*) is a composite material made of a polymer matrix reinforced with fibers. The fibers are usually glass, carbon, aramid, or basalt. The polymer is usually an epoxy, vinylester or polyester thermosetting plastic.

GRPs are commonly used in the aerospace-, automotive-, marine, construction industries and sanitary.

FORMING PROCESSES

A rigid structure is usually used to establish the shape of GRP components. Parts can be laid up on a flat surface referred to as a "caul plate" or on a cylindrical structure referred to as a "mandrel". However most fibre-reinforced plastic parts are created with a mold or "tool." Molds can be concave female molds, male molds, or the mold can completely enclose the part with a top and bottom mold.

PRODUCT DESCRIPTION

COMMERCIAL NAME: GlassFiber reinforced plastic (GRP or FRP)

CHEMICAL NAME: No chemical names for products

CONSTITUENT PARTS: Polyester resin, epoxy resin and/or vinylester, glassfiber, carbon fiber, additives

According to REACH (EY) No: 1907/2006 fiber reinforced plastics materials are not considered as chemicals (Shape and mechanical performance are more important for the product than chemical composition) and for that reason they do not need to have MSDS. We (APRO BINAA) want to shear information and help our customers handling our products properly and this paper is for that purpose.

PHYSICAL AND CHEMICAL PROPERTIES (Where Appropriate)

Weight & Dimensions: Various to customer requirements

Color & Odor: Color acc. to customer requirements, Odor when products are over-heated

Boiling & Melting Points (°C): Na

Specific Gravity at 15°C 1.60 – 2.00 g/cm³

Vapor Pressure: vapor density

Solubility in Water & Organic Solvents: Negligible

Flash Point & Auto Ignition: > 450°C

Temperature (°C)

Flammability Limits: (% by volume)

Corrosive Qualities: pH value: Solid

Percentage or Volatiles: Solid

Evaporation Rate

Stability in Air: conditions to avoid Stable

Hazardous Combustion Products: Carbon monoxide, carbon dioxide

Incompatibility (materials to avoid): Not active material

TRANSPORT INFORMATION

Proper shipping name Glass/carbon fiber reinforced products

USES

Whether for use as a solvent, and adhesive, for heat treatment, a paint, a lubricant, a cleaning agent/detergent, sterilizing agent, a disinfectant or any other use.

Solid Materials

TRANSPORT/STORAGE PRECAUTIONS

Transport/storage temperature (°C)
Loading/unloading temperature (°C)

-50°C to +80°C

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