

Product Handling Information Sheet

HGW 2372.1

1. Company

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2. Product Description

Product/Article	Technical semi-finished product (sheet / rod / moulded part)
Standard designation	Hgw 2372.1 (DIN 7735) / EP GC 202 (EN 60893), also known as "FR-4"
Characterisation	Thermoset laminate (glass-fabric laminate)
Main constituents	• Epoxy resin • Glass fabric
Constituents subject to labelling	none
Classification under REACH	Article
Notes	Not declared as a food-contact material.

3. Product Properties

Form/State	• solid (thermoset)
Colour	light green
Odour	• nearly odourless
Density	1.7-1.9 g/cm ³
Glass transition temperature	- (thermoset, no melting point)
Limit temperature (continuous use)	130 °C (thermal class B)
Thermal decomposition	chars/decomposes at high temperature (does not melt)
Flammability	flame-retardant (UL 94 V-0)
Notes	Glass-fabric reinforcement significantly increases mechanical strength compared with cotton-fabric laminates.

4. Hazard Information

Special hazards to humans and the environment	none (in cured state)
Notes	Resin/glass fibre dust generated during machining should not be inhaled (mechanical skin irritation from glass fibres possible). Overheating or combustion can release harmful decomposition products.

5. Handling and Storage

Handling	• The product can be machined with standard commercial machinery (sawing, milling, turning, drilling). • Prior to machining, the product should be at room temperature, or stored for at least 24 h in standard climate beforehand. • Ensure adequate dust extraction during machining (resin/glass fibre dust); use sharp, carbide-tipped or diamond-coated tools. • Allow for increased tool wear compared with cotton-fabric laminates due to the glass-fabric reinforcement. • As a thermoset, cannot be reshaped or welded.
Storage recommendation	• horizontal • dry • protected from moisture • protected from direct UV/sunlight
Protective measures	Respiratory protection / extraction if dust is generated; avoid skin contact with machining dust
Shelf life	-
Notes	-

6. Transport

Transport	• Not classified as dangerous goods under transport regulations.
Packaging	-
Notes	-

7. Fire-Fighting Measures

Suitable extinguishing media	• Water • Foam • Dry extinguishing agent • CO₂
Possible combustion products	• Carbon monoxide • Carbon dioxide • Nitrogen oxides • Other organic decomposition products
Required protective equipment	• Firefighters and others exposed to combustion products should wear full protective clothing and self-contained breathing apparatus.
Notes	Collect fire residues and dispose of in accordance with local regulations.

8. Disposal Information

Recyclability	Thermoset (glass-fabric reinforced); material recycling only possible to a limited extent, consider thermal recycling.
EU waste catalogue	The product is not classified as hazardous under the European Waste Catalogue (EAK).
Disposal	The material may be sent to a suitable incineration plant in accordance with local regulations.
Waste code no.	• 07 02 13 - plastic waste • 17 02 03 - plastics (construction)
Notes	-

9. Labelling, Directives and Regulations

Labelling under EEC directives	not subject to labelling
Notes	-

10. REACH Information

Information	Under EC Directive 1907/2006/EC (REACH), Article 3, No. 3, our products are articles that are not subject to registration. The European Chemicals Regulation (EC) No. 1907/2006 (REACH), which entered into force on 1 June 2007, requires safety data sheets (SDS) only for hazardous substances and preparations. Our products are articles under REACH, so no SDS requirement applies.
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11. Other Information

Other information	The above information is based on our current state of knowledge and does not constitute a guarantee of properties. Applicable laws and regulations must be observed by the recipient of our product on their own responsibility.
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